

TECHNICAL AREA 3: BRAVE Buildings
HOW BRAVE WILL TRANSFORM OUR NATION'S BUILDINGS

Even in the most intelligent buildings, the focus is primarily on thermal comfort, energy efficiency, and maintaining carbon dioxide (CO₂) levels as a proxy for occupancy and indoor air quality.

The BRAVE solution creates a new generation of scalable intelligent building systems designed to seamlessly and cost effectively integrate with building HVAC systems to create healthier indoor environments. We will document improvements in health outcomes in childcare centers, for staff, children and their families.

The success and return on investment of our approach will be evaluated using daily absence data and, among enrolled participants, laboratory-confirmed cases of respiratory illnesses.

WHY CHILDCARE CENTERS?

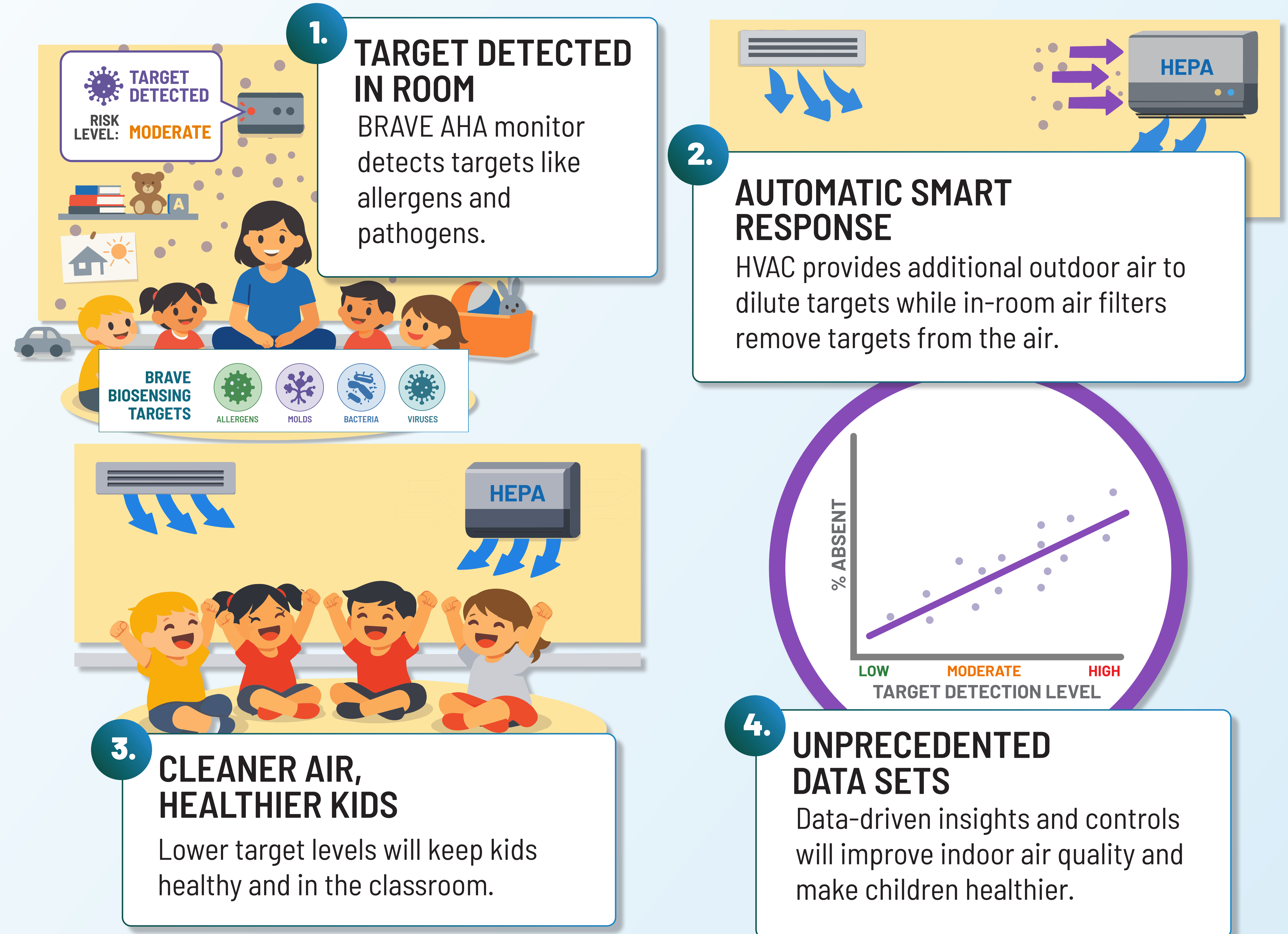
- Create healthier indoor environments for children, childcare staff, and families through improved air quality and ventilation
- Reduce missed childcare days so families experience fewer disruptions and parents can stay at work
- Lower healthcare visits, hospitalizations, and the economic burden associated with respiratory illnesses and related chronic diseases
- Strengthen the resilience of childcare centers by reducing costly disease prevalence among children and caregivers

REAL WORLD RESULTS

The BRAVE solution will be demonstrated in a “control” and “intervention” building in three cities across the U.S. Baseline monitoring begins this summer while the AHA monitor development and production is underway.

A NEW GENERATION OF RESPONSIVE BUILDINGS

Healthier air for American families



STUDY SITES AND CLIMATE ZONES

