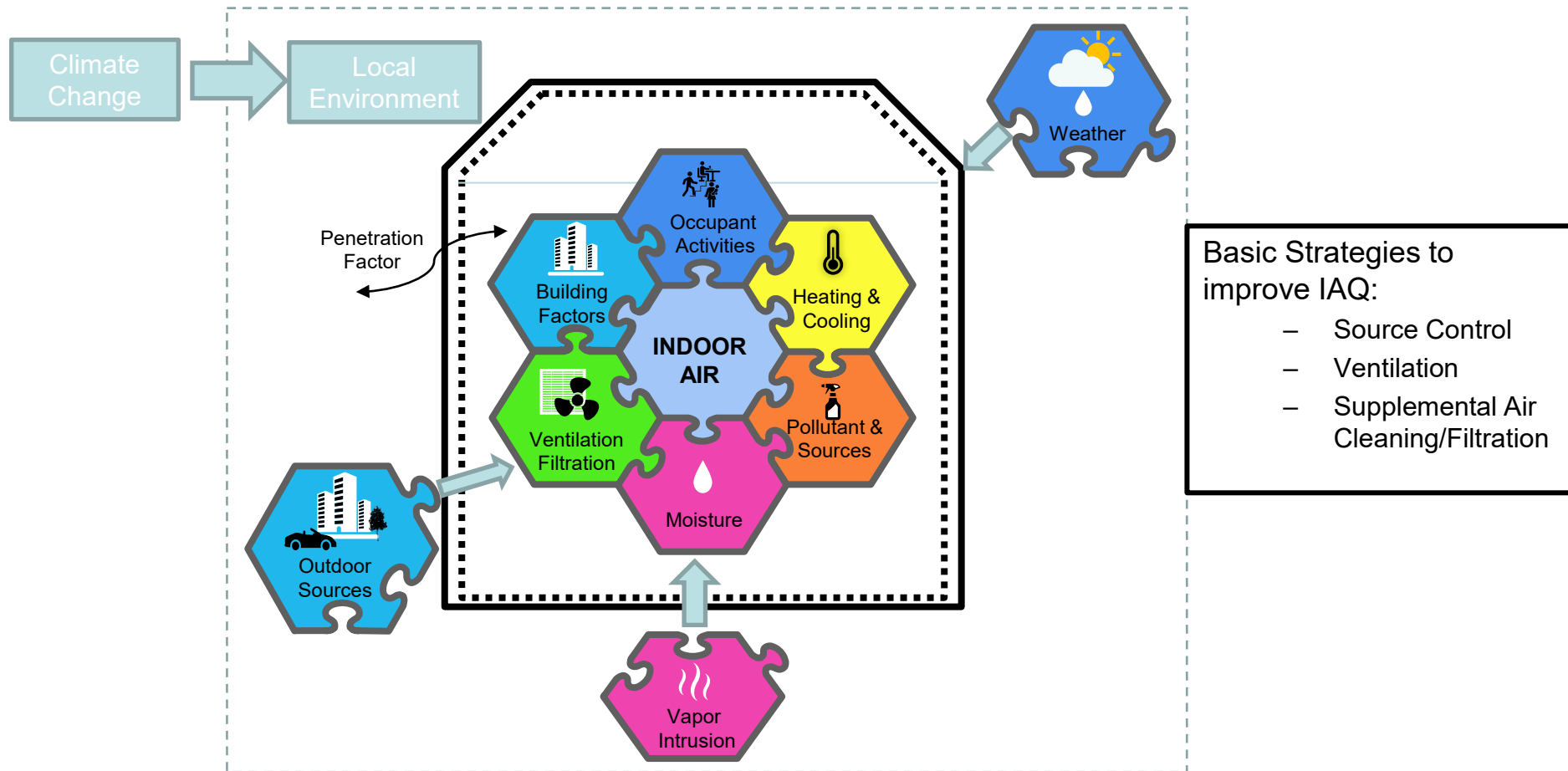


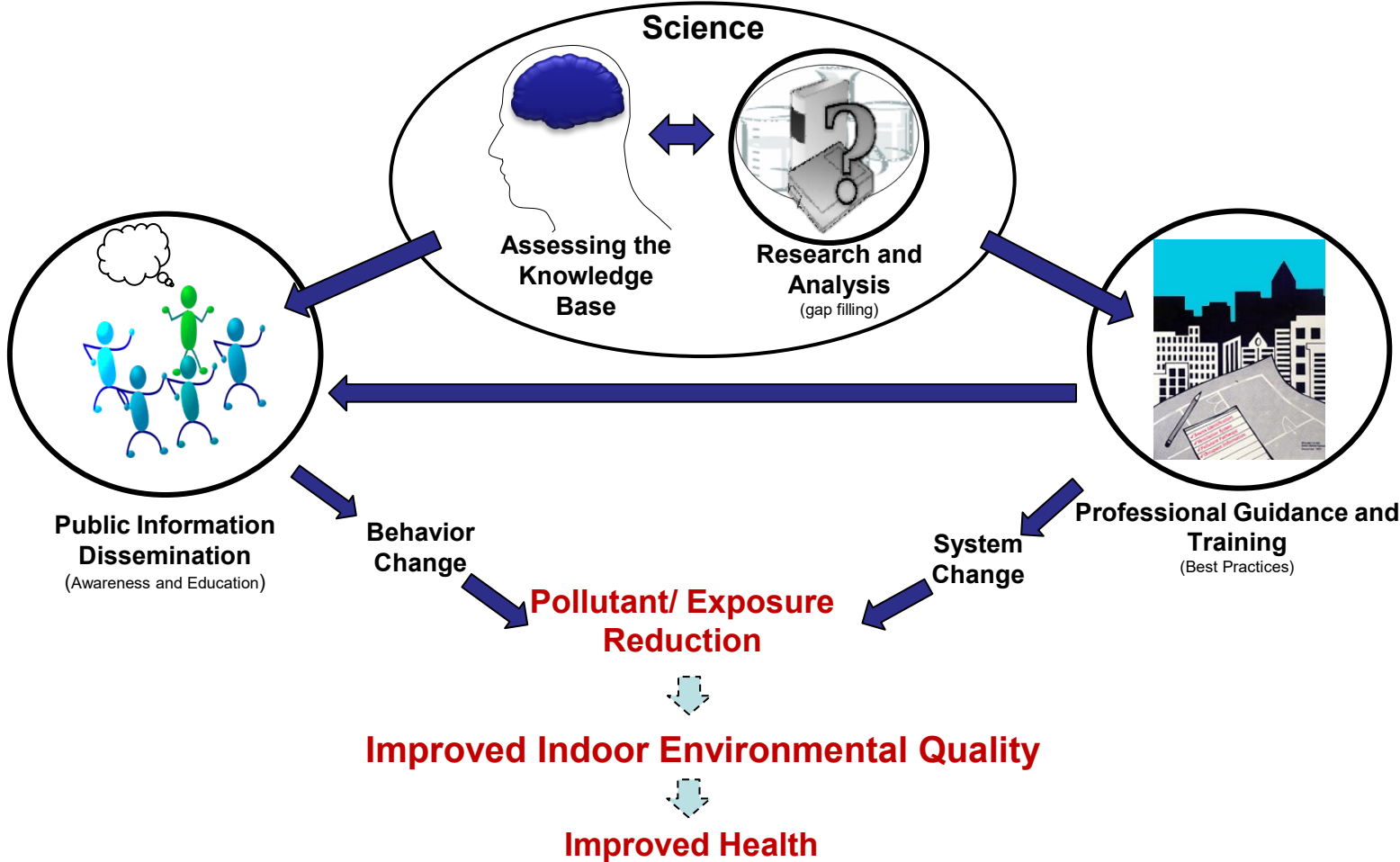


# The Complexity of IAQ



# EPA's Role in Improving IEQ

**MISSION:**  
Protecting the public's health from indoor environmental concerns where they live, learn, work and play



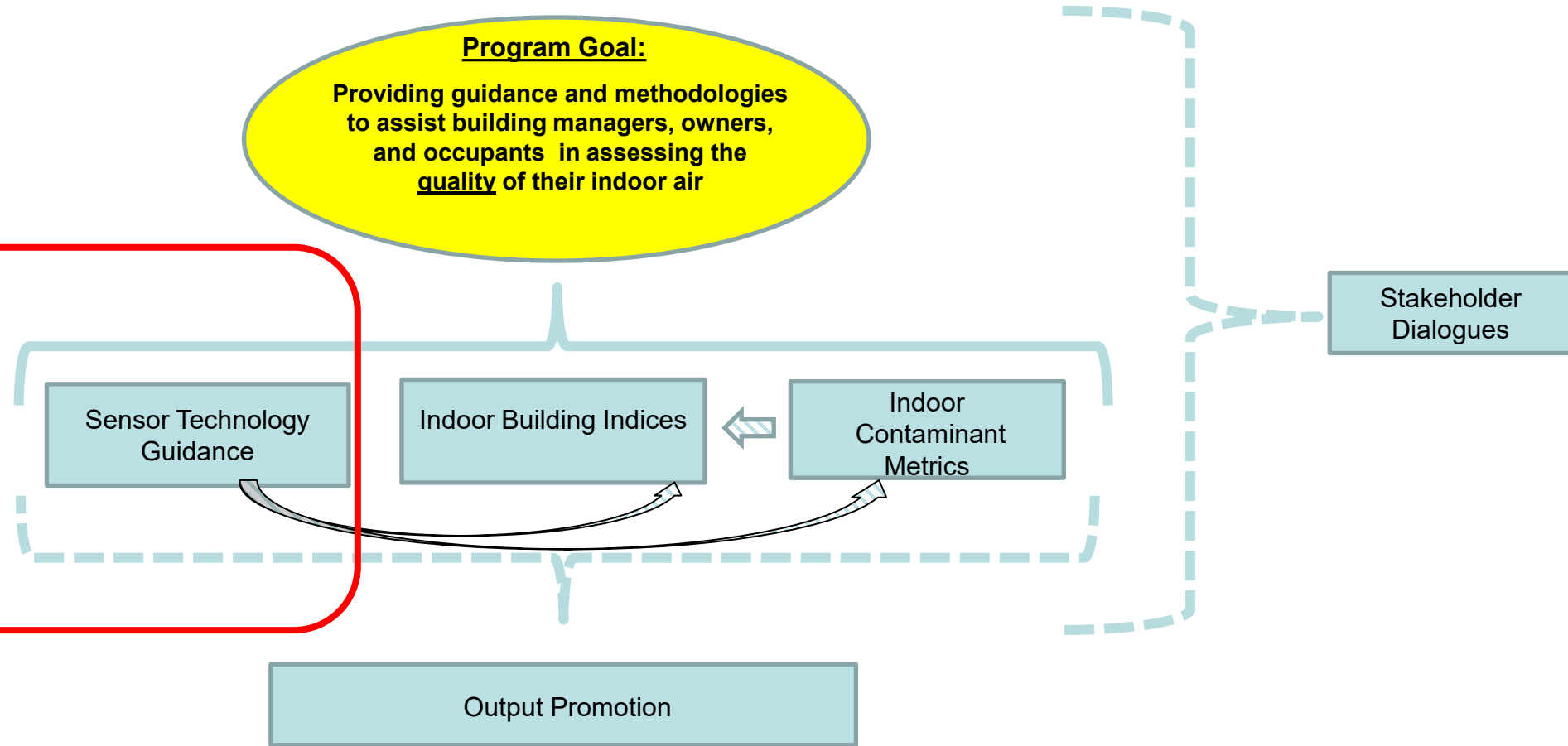
# IED's I-MIST Program: Work Areas

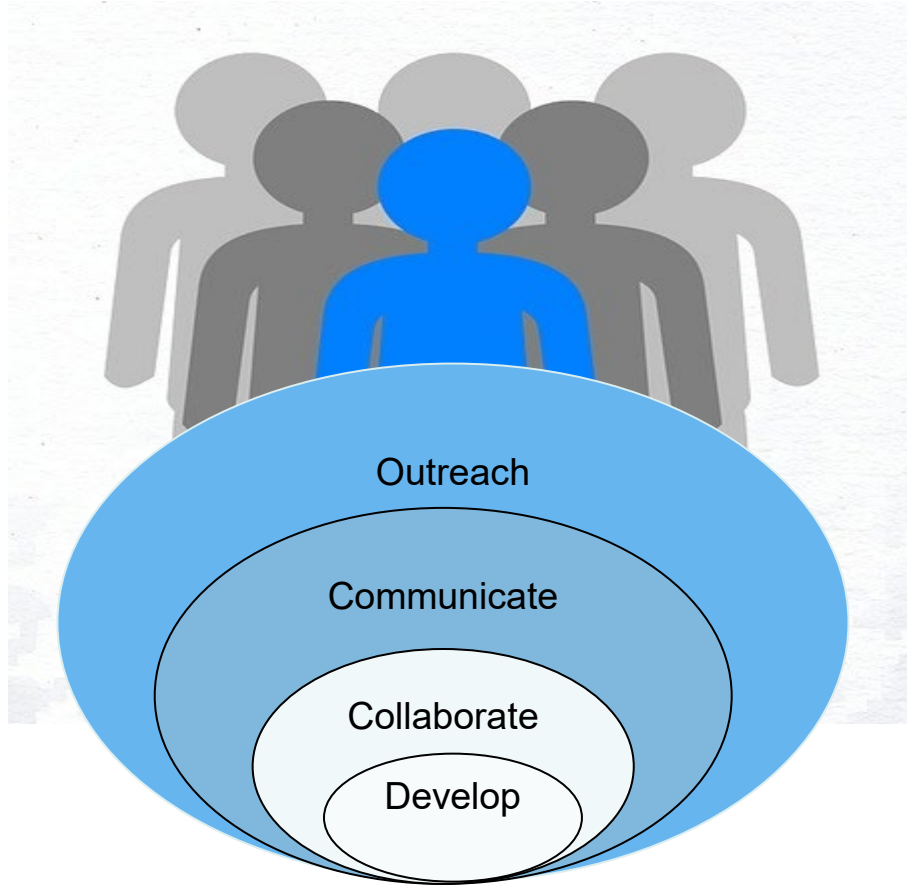
## I-MIST Metric and Building Indices Project Goal

1. Establish IAQ metrics for priority indoor air contaminants
2. Develop building performance and asset rating systems or indices

## I-MIST Sensor Technology Project Goal

1. Summarize current scientifically credible information/data
2. Develop guidance for the public on appropriate use of consumer-oriented, indoor sensors





## IMIST Spheres of Influence

- Analysis of Current Information
- Promoting Stakeholder Communication and Consensus Building
- Promoting collaboration and consistent messaging indices & indoor contaminant metrics on indoor sensor technology, indoor building among stakeholders
- Development and Dissemination of Professional/Consumer Guidance

# **WEB-BASED GUIDANCE:**

**“AIR SENSOR TECHNOLOGY AND INDOOR  
AIR QUALITY”**

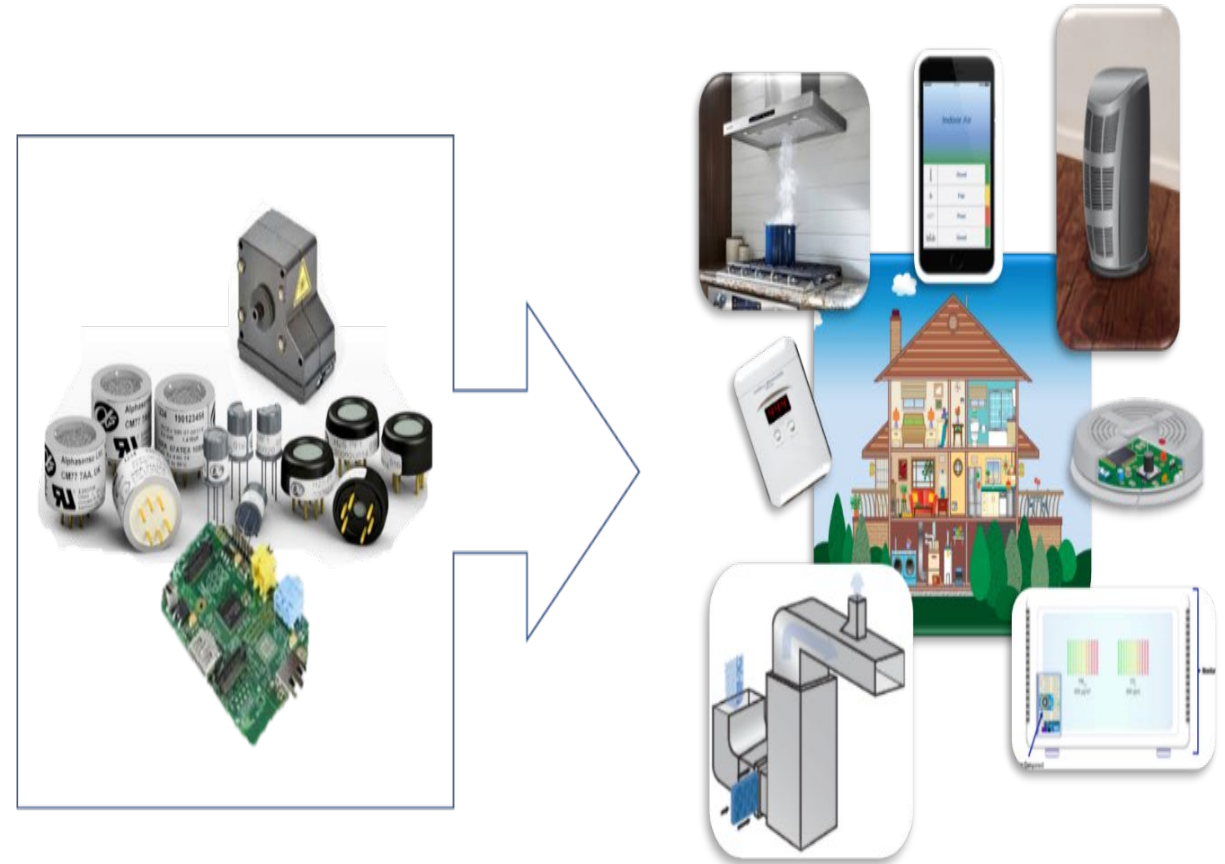
**AND**

**“LOW-COST AIR POLLUTION MONITORS AND  
INDOOR AIR QUALITY”**

# Air Sensor Technology and Indoor Air Quality

- Hub Page

- Consumer web-based guidance on indoor use of sensor technology
- A centralized location for all things related to indoor use of sensors technology



# Air Sensor Technology and Indoor Air Quality cont'd

## Hub Page Content

- Terminology
- Introduction of sensor technology as a change factor in IAQ management
- Introduction to common uses indoors
  - Detecting airborne pollutant concentrations.
  - Triggering an action
  - Activation of safety devices
  - Research and educational activities.

## Information Expansion (linked webpages)

- Low-Cost Air Pollution Monitors (published)
- Educational Activities (pending)



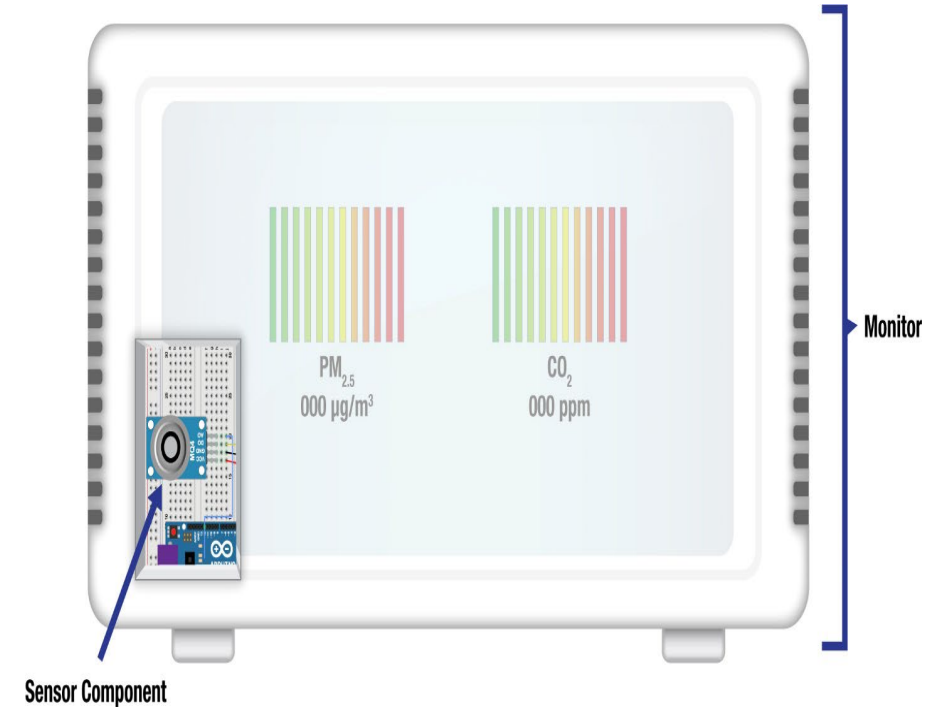
Indoor Air Quality (IAQ)



# Indoor Air Quality and Low-cost pollutant monitors

## Consumer web-based guidance

- Developed to help inform and increase consumer understanding of pros and cons of these devices
- Why this issue?
  - IAQ monitor market is a multi-billion dollar a year industry
  - Unknowns and uncertainties of equipment operation
  - No agreed upon protocols of use
  - Lack of indoor health-based standards or action levels for most contaminants





## Question, comments, interested in collaborating:

- Laureen Burton [Burton.Laureen@epa.gov](mailto:Burton.Laureen@epa.gov)
- Randy Chapman [Chapman.Randolph@epa.gov](mailto:Chapman.Randolph@epa.gov)

## Websites:

- Indoor Environments Division Website
  - [www.epa.gov/indoor-air-quality-iaq](http://www.epa.gov/indoor-air-quality-iaq)
- Air Sensor Technology and Indoor Air Quality
  - [www.epa.gov/indoor-air-quality-iaq/air-sensor-technology-and-indoor-air-quality](http://www.epa.gov/indoor-air-quality-iaq/air-sensor-technology-and-indoor-air-quality)
- Indoor Air Quality and Low-cost pollution monitors
  - [www.epa.gov/indoor-air-quality-iaq/low-cost-air-pollution-monitors-and-indoor-air-quality](http://www.epa.gov/indoor-air-quality-iaq/low-cost-air-pollution-monitors-and-indoor-air-quality)



Suggestions?  
Questions?  
Discussion