

# INDOOR AIR QUALITY



## 24x7 monitoring out of the box

*Cosmos™ healthy home system*

For more than 100 years Panasonic has been known as a technology company that brings to life ideas that focus on the well-being of its clients.

For *Panasonic Life Solutions of America* division, IAQ is a key priority and they wanted to offer a solution that meets the latest codes and standards of a healthy system so they can ensure users breathe clean air and prevent issues associated with respiratory conditions and many other illnesses.

They needed to come up with a robust technology that could help them connect their ventilation fans to be controlled remotely, and guarantee 24x7 monitoring and remote control through a simple App. They reached out to Webee to provide the expertise and technology they need to take their first steps into the market.



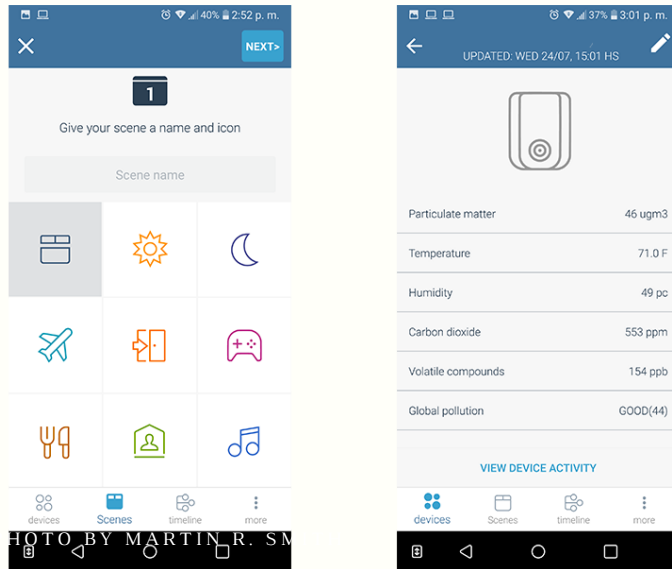
### KEY RESULTS

**MONITOR AIR QUALITY  
IN REAL-TIME**

**RECEIVE IAQ ALERTS  
WHEN CONDITIONS ARE  
OUT OF RANGE**

**CONTROL REMOTELY  
THROUGH A MOBILE APP**

**INTEGRATE WITH THIRD  
PARTY DEVICES,  
PROTOCOLS AND  
COMPLIANT WITH  
ASHRAE**



## Why Webee?

Our services gave Panasonic Life Solutions the speed they needed to get to the market on time with a flexible solution that guarantees they meet the market needs. The solution can also be expanded to add more variables to sense and different communication protocols. The data collected also gives them the possibility to generate AI algorithms modules and send users recommendations to optimize their daily lives.

## Our Technology Approach

Webee technology helped get the solution just in time for the commercial launch. Our goal was to make the necessary adjustments to make sure they could reach the market with an IAQ monitoring system in compliance with ASHRAE 62.2 regulations. They needed an intelligent solution with the autonomy for full-time monitoring to correct any deviations effectively. We provided a combination of solutions that included: Central Hub Control - multi-protocol and able to integrate with third-party sensors, IAQ Sensor Integration, ventilation system retrofit compliant with ASHRAE 62.2, Android and iOS mobile applications and cloud architecture. The system also has the capacity to work locally without internet connectivity.

## HOW WE BUILT THE TECHNOLOGY

**Smart Hub:** The heart of the system created with multiple communication protocols, ZigBee, Z-Wave, WiFi that facilitate the integration and interaction with multiple devices in the market.

**IAQ Sensor:** We integrated the sensor that works with the hub to monitor indoor air quality and execute different scenes using Panasonic Air fans also retrofitted with our technology

**Smart Apps:** The solution includes two smart apps for Android and iOS that offer the possibility to configure and control the central ventilation system and air quality with a vast device ecosystem that offers multiple functionalities for facility management.

**Cloud Architecture:** The system cloud architecture was build to administrate and monitor hubs and devices offers support and post-sales tools.