

## Client



**Hewlett Packard  
Enterprise**

## Location

Banaras Hindu University, Varanasi

## Application

CSR - Air Quality Monitoring  
Research

## Problem / Purpose

CSR can refer to a wide range of actions from donating to charities to ethical practices. One of the most primary focus in CSR is Environment.

Out of the 5,000 cities and towns in India, a regulatory air quality monitoring network exists only in 268. Out of these, only 24 cities have some capacity to do real-time monitoring. The rest rely on manual monitoring which is inefficient, vulnerable to weak quality control and results in inordinate delays in data reporting.

Not having enough data to analyze or driving better decisions to reduce Air Pollution hinders the positive impact on our planetary health.

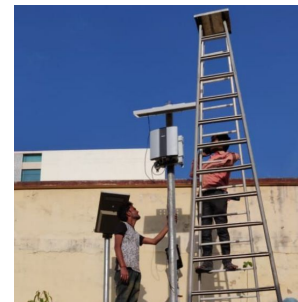
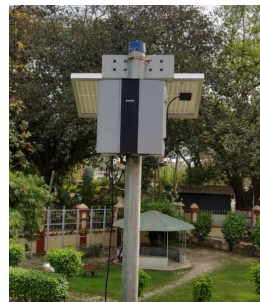
Setting up a dense network of real-time air quality monitors is a need of the hour.

## Oizom Solution

When HPE turned to Oizom to help them execute a CSR project. Oizom jumped at the opportunity and designed the project around the Air Quality Monitoring network for the students of Banaras Hindu University.

Oizom deployed 5 Polludrone Lite in BHU Campus. The Polludrone has the capability to measure Particulate Matter Pollution, CO, Greenhouse Gas, Temp-Humidity. The data is visible real-time in our cloud platform to further analyze. Hourly, Monthly, and Daily Historical data is available for better research activities.

The students and professors of the BHU shall derive actionable insights using the data from the Polludrone. The platform such as Application is planned to be developed to disseminate the useful information regarding the air quality and ways to reduce it and spread awareness.



## Impact

Empowering the think tanks and intellectuals with the air quality data as CSR is a novel concept. The air quality data analysis will be able to generate useful information on better health decisions. Oizom is proud to associate with HPE for enabling the Varanasi citizens to view the real-time environmental conditions of their city.

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