

Client



Location

Agra, U.P. (India)

Application

Smart City Monitoring

Problem

Agra city's vision statement is 'The City of Taj' - where history is preserved, the environment is pristine, infrastructure is world-class, and opportunity is plenty - a safe place to live, a great place to tour.

Since it was selected as a smart city in 2016, substantial financial aid has been provided to restore Agra's beauty. As one of the seven wonders of the world - Taj Mahal, is in Agra, it attracts ~8 million tourists every year. The pollution level in Agra has steeped so high that it has started impacting the preserved monument and health of the tourists and the residents. Several industrial activities and open crop burning have contributed to very high levels of PM10 in the atmosphere. Thus, it became crucial to implement some pollution controlling mechanism to combat the issue.

Oizom Solution

Oizom offered their helping hands to Agra Smart City to let the authorities understand the city's atmosphere. Oizom deployed Polludrone across the city to monitor ambient air quality. Total 39 devices have been installed, out of which 5 devices are dedicated for monitoring the environment surrounding the Taj Mahal. Polludrone assesses all the critical pollutants present in the air - PM_{2.5}, PM₁₀, CO₂, CO, SO₂, NO, NO₂, and O₃, along with the weather parameters - Noise, Light, UV Radiation, Temperature, Humidity, and Rainfall, to present the complete scenario. Polludrone's smart IoT technology is able to identify the major source of pollution.

Oizom Terminal is set up for the authorities by integrating it with the city's Command and Control Centre. Real-time pollution data can be observed here, which can assist in mitigating the root cause and create awareness among local people and tourists about the current environmental health.



Impact

Installing Polludrone throughout the city gave open access to the environmental data to the authorities. The solution located the source of origin through reverse modelling. This helped to take necessary corrective steps against the actions which were deteriorating the air quality of the city. Monitoring the ambient air near Taj Mahal allows the authorities to visualize the air quality in real-time and act accordingly in case of pollution breach.

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