OIZOM
REDEFINING RESOURCES

Client

IONIXX
TECHNOLOGIES

Location

Surat

Application

Ecotourism

Problem / Purpose

In 2015, Surat was selected among the 20 cities to be developed as Smart City. The city's vision is to provide quality infrastructure, quality living, and enhanced economy to its citizens. Surat also known as 'The Silk City' or 'The Diamond City', has one of the fastest growth rates in the country due to immigration from other parts of the nation in search of employment. This has led to rapid industrial development in and around the city.

To achieve the smart city's vision, the SMC (Surat Municipal Corporation) needed to track the pollution emission in the city to be able to control it. The authorities wanted to make people aware of the city's environmental health. The major problem in environmental monitoring is real-time data capturing and assessment for taking immediate steps.

Oizom Solution

Oizom provided Polludrone Smart for real-time environmental monitoring throughout the city. The plug and play solution was installed on the smart pole to collect air samples. Pollutants such as PM2.5, PM10, CO_2, CO, SO_2, NO, NO_2, O_3, along with temperature and humidity were measured using Polludrone across the city.

The data was analyzed in our Oizom Terminal, which can generate data trends and reports. The heat maps and dispersion plumes can help in determining the source of origin of each pollutant. Identifying the sources can make the rectification process much easier by taking corrective actions in the particular region. The results were communicated through the mobile app to the citizens to alert them of the pollutants present in their city's ambient air.

Impact

Installing Oizom's smart solution for city monitoring helped Surat city's authorities to analyze the impact of the pollution in real-time. The trend analysis can help to identify the prime sources of air pollution which could assist the concerned departments to take data-driven corrective actions against it. The solution can provide new environmental insights and actionable information. It created awareness among the citizens which can urge them to adapt an eco-friendly lifestyle.