

Client



Location

Imphal, Manipur

Application

Smart City Monitoring

Problem

Imphal is one of the ancient Indian subcontinents, known for its old well-planned temples and historical palace. The monuments and the lush green-blue surroundings is a destination to the discerning tourists. Imphal being a hilly area, at a height of 786 m, is highly prone to floods and earthquakes. In fact, 35% of the city is prone to floods and the entire city is Seismic Zone 5. Due to the hilly terrains, traffic management is also a problem, so much so that it may affect the relics of the city.

To cope up with all these problems, the city needs a holistic and robust system. Keeping this in mind, Imphal's smart city mission features include tourism and heritage precincts, smart mobility, smart governance, smart infrastructure, health & medicine, and revitalization of business districts. Air quality monitoring being one of the key elements of the infrastructure, it was required for empowering city authorities with real-time data.

Oizom Solution

To provide a smart infrastructure to the city, Oizom offered its smart environmental solution to Imphal. Oizom Polludrone, with environmental sensors, is a one-stop solution to the city's developmental problems.

Polludrone measures all the major pollutants in the ambient air. This will help the city in understanding the pollution scenario and its major sources. Polludrone is installed on roadsides to monitor the vehicular emission. Not only this, but the smart device is also capable of monitoring weather parameters like wind, flood, temperature, pressure, etc. through its advanced monitoring methods. All these data are transferred in real-time to Oizom's data analytics platform where it is then interpreted and shared with the city authorities.



Impact

Capturing different environmental data and its assessment in Oizom Terminal in real-time helps the city in taking actions beforehand. The city can implement an intelligent traffic management system now, owing to the vehicular emission data. Predicting oncoming natural hazards beforehand will help the city in preparedness to face the situations and transfer people to safe places and save lives and infrastructure.

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