

## Client



## Location

Delhi and NCR

## Application

Environmental Open Data

## Problem / Purpose

According to a study, Delhi has faced the highest smog in recent years. A sudden drastic change in environmental condition is due to the increasing level of pollutants in the ambient air. Presently, the citizens have become concerned about the environment of the city and the air-quality they breathe. India Open Data Association, a non-profit Organisation which promotes and supports different open data initiatives in India, decided to execute a possible solution using open-data. IODA's prime motive was to make the Air-Quality data available for every citizen and provide suggestive actions to prevent the health hazards of pollution.



## Oizom Solution

IODA installed 40 Polludrones across Delhi to monitor Air-Quality and share the data through a visualisation platform <http://openenvironment.indiaopendata.com/#/dashboard/> created by Oizom. India Open Data Association believes that "Air-Quality Data" can generate public awareness and trigger action to solve the problems which are of deep public interest.

Joining the community efforts with India Open Data Association, Oizom successfully installed 40 Polludrones in Delhi and also created a visualisation platform where citizens can have information about present Air-Quality of their area. Through smart algorithms, the portal also gives suggestive actions to be taken as per the pollution level.



One of the objectives was to motivate and invite developers to develop an intuitive application using the data. Therefore, the real-time data from the monitors are made available using OPEN APIs under Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) License.



## Impact

Through Real-time Air Quality information from the smart reports generated; India Open Data Association came to the conclusion that the Air Pollution level in most of the areas of Delhi is highest during the peak hours, i.e., 8.30 a.m to 11.00 a.m and 7.00 p.m to 10.00 p.m. During the peak hours, the penetration of PM 2.5 and carbon dioxide is highest in the environment. The data can be visualised live on the Oizom platform through which citizens of Delhi are now aware of the environmental hazards and can take relevant actions to prevent health impact.