

Client



Location

Baku, Azerbaijan

Application

Smart City Monitoring

Problem

With over 2 million population, Baku city is brimming with urbanization, and with this, the number of vehicles on roads is also rising. Managing traffic and the consequent emission, along with the urban environment has been the most challenging tasks for the city. The city authorities aim to provide a safer and smarter city to their residents. Installing solutions demanded to have an extrusive system that does not interfere with the city's safety and still addresses a wide range of city issues and security measures.

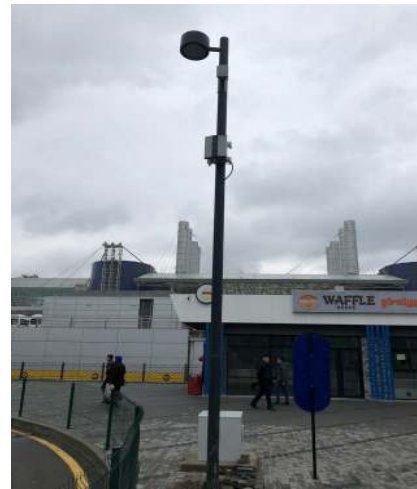
The authorities wanted a one-solution-fits-all model to heed their smart city concerns, whether it is an everyday routine monitoring or preparing for any city-wide emergency. What Baku city needed is a robust solution to tackle their environmental, traffic management, network connectivity, and safety measures, all at once.

Oizom Solution

The city initiated its mission to bridge the gaps with a project named 'Smart City'. The project aimed to focus on Smart lightning, Smart parking, Environmental monitoring, Face Recognition, Plate Recognition, Public Wi-Fi, etc. An agreement was signed between the Ministry of Transport, Communications and High Technologies AR with CISCO to execute the plan.

CISCO, which has partnered with Oizom, committed to providing the IoT systems for the development of smart cities. Oizom deployed its IoT-enabled device Polludrone which is capable of monitoring around 27 environmental parameters. The prototype was implemented in the Baku International Bus Station to address various factors like environmental pollution, traffic management, connectivity to people, along with smart lighting to the station.

Polludrone measures environmental parameters in real-time and sends the data directly to CCC (Control and Command Center) for authorities to analyze the situation.



Impact

The on-time assessment of the ambient environment using Polludrone helped authorities in making quick decisions to minimize environmental pollution resulting due to vehicular emissions. This, in turn, gave a way to develop a smooth traffic management system to control and reduce the number of vehicles and pollution.

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