

Challenge

The conventional way to detect, monitor and manage waste is wasteful. With the below challenges in mind, our IoT team was tasked with a solution to make waste management smart.



Our IoT Development team provided a

in such smart cities.

solution that will evolve waste management

No real-time data used for collection



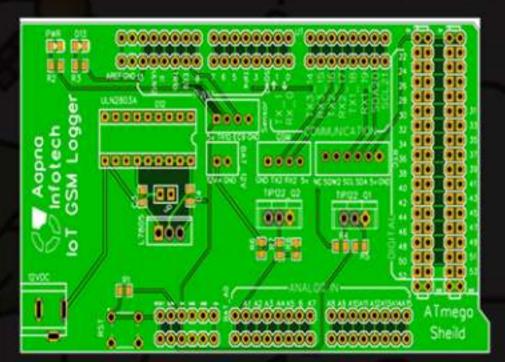
Overall inefficient allocation of labor, time and fuel



Unplanned waste collection leads to overflown garbage in some areas, resulting in a health hazard.

The Solution

A smart garbage bin is created that automatically detects levels of garbage at regular intervals using Ultrasonic sensors.



The device measures level of garbage and connects using GSM/cellular technology to the cloud, where it sends this data onto a dashboard.



A real-time clock enables all devices to sleep and then activate every six hours and gather data, thus helping the device achieve its purpose while also saving energy.



The device also sends alerts when battery levels of the system are low.

Transformation

The data gathered by our IoT solution will enable cities to deploy garbage collectors effectively. Due to resources being expended appropriately with data, not only will our IoT product help cities get cleaner, it will save labor costs, time and fuel – resulting in a cleaner, smarter and a more comfortable life.

Technology Used

