

Use Cases

Madiun

The project of installing and maintaining Smart Waste Bin sensors on 15 Armroll Bins with a capacity of 6 cubic meters at TPS Kota Madiun aims to improve waste management efficiency in the city.



Bandung

The installation of 120-liter Smart Waste Bin units in the tourist area of Jl. Braga, Bandung, is one of the efforts by DLHK Kota Bandung to improve efficiency and effectiveness in monitoring, cleaning, and supervising waste management in the area.



Our Clients



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Smart Waste Management

"Optimizing waste management with AI- and IoT-based smart technology"



Waste Management

The waste management sector is vital for public health and environmental sustainability, yet unscheduled waste transportation and limited data often cause unmonitored accumulation and higher operational costs. AI and IoT technologies help address this by providing real-time monitoring and data analysis to track container volume, optimize routes, and detect irregular disposal activities.

Our Solution : Smart Waste Bin

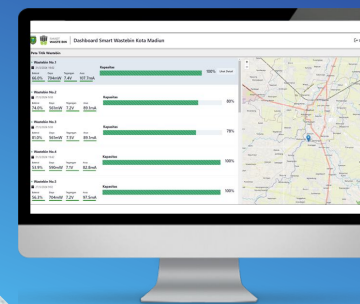
An IoT sensor with AI platform that measures the amount of waste in bins and plans the waste collection process to ensure optimal efficiency. It involves active community participation and responsibility in reducing, reusing, and managing waste in a sustainable manner.

Main Benefits

-  Efficient Waste Management
-  Energy efficiency with Solar-powered batteries
-  Data Analytics for Decision-Making
-  Reduction of Waste and Environmental Pollution

Key Features

-  Sensors for battery power measure
-  Notifications to maintain cleanliness
-  Real-time waste volume measure



Comprehensive Dashboard

Display real-time data from bin sensors and monitor battery status, simplifying maintenance processes and enabling more effective waste management operations.



System Architecture

