

## Smart Waste Management in Metropolitan Cities

smart waste management is about using technology and data to create a more efficient waste industry, based on IoT (Internet of Things)

## The story behind the Smart waste management

Smart waste management **focuses on solving the previously mentioned solid waste management problems using sensors, intelligent monitoring systems, and mobile applications.** The first smart waste management solution to make the waste collection process more efficient is sensors.

## What is the aim smart waste management

smart waste management aims to optimize resource allocation, reduce running costs, and increase the sustainability of waste services.

## How to use it

1. **Title:** To provide an application for smart waste management in metropolitan cities.
2. **Alternate Name:** Monitor waste management using IoT.
3. **Target group:**
  - Government and regulatory bodies
  - Smart waste solution vendors
  - Municipal corporations
  - Waste management associations
  - Platform providers
  - Network solution providers
  - Consulting firms
  - System integrators
  - Managed service providers
4. **Problem:**
  - Misunderstanding of the operations of smart sensors: Because this is a new and emerging technology, there is a general misunderstanding of its operations.
  - Setting up the smart sensor.
  - Non-optimized truck routes.
  - Recycling.
  - Non-uniform waste distribution of waste in bin.
5. **Solution:**
  - Use a reusable bottle/cup for beverages on-the-go.
  - Use reusable grocery bags, and not just for groceries.
  - Purchase wisely and recycle.
  - Compost it!
  - Avoid single-use food and drink containers and utensils.
  - Buy secondhand items and donate used goods.
6. **Benefits:**
  - Reduction in Collection Cost. The solution reduces waste collection frequency dramatically, enabling you to save on fuel, labor, and fleet maintenance costs.
  - No Missed Pickups.
  - Reduced Overflows.
  - Waste Generation Analysis.

# Smart Waste Management in Metropolitan Cities.

## Smart Waste Management

To provide a basic solution for waste management using IoT(Internet of Things).

Target group

Citizens  
Industries

### Problem

Which major user pains are being addressed?

Citizens

Industries

Rural Areas

Importance: ☐ ☐ ☒ ☒

### Solution

What is the basics?

Organize the Waste from various sources.

Categorize them on their nature.

provide a solution how to treat them.

Tech used

Ultrasonic detectors.

Waste tracking technology.

Electronics recycling booths.

3 R's of smart waste management

Reduce

Re-use

Recycle

Effort: ☐ ☒ ☒ ☐

### Benefits

How will you benefit from your solution?

Sustainability

Improving efficiency

Transparency

Impact: ☐ ☒ ☒ ☐

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