SMART GARBAGE
Smart Garbage Solution is E2e management of Garbage, getting prior information of the bins which are getting filled and effective route optimization to manage the collection of Bins.

The Smart Garbage Management is an integral part of “Smart Cities Solutions”. There are two innovative functions of smart waste management: **operational efficiency** and **waste reduction**.

**Business Challenges**

- Optimization of Waste Collection Routes
- Scalability & Data Management
- Performing advanced analytics to the data
- Providing remote access

**Solution Highlights**

Smart Garbage solution monitors waste collection and disposal electronically. Waste collection vehicle is fitted with a GPS tracking device to monitor its location and movement. Waste Bins have sensors to monitor its capacity. It also has the ability to provide alert notification when full. This helps garbage collection vehicle to approach the bin to collect waste immediately

**Solution Implementation**

Tech Mahindra Smart Garbage Solutions are:

- Level sensors are ruggedized to be fitted on wayside bins and map location view of all bins.
- Battery operated sensors with a battery life of 1 year based on the frequency of sending data to server
- Linked to the nearest pickup truck but the feasibility need to be explored based on the available tracking solution for the pickup trucks. (Sending a SMS to configured mobile for bin pick up )
- Colour of bins on dashboard depicting the status of the bins(Red, amber and green)
Business Benefits

- Detect the level of garbage inside the bin with level sensors.
- Communicate with the local control centre and inform centre co-ordinator of bin status (sensor to smart city platform)
- Mapping location view of bins

Differentiator - Tech Mahindra Edge

Tech Mahindra has a vast experience in integrating solutions with IT, working with wireless and wired technologies, and designing networks. Our solution can help municipalities to save cost and time to manage waste collection and effectively monitor the process.

Case Study

Smart Garbage Management for use Mahindra World City Jaipur