Empathy Map



smart waste management system for metro cities using IOT

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ID

Thinks in reduction in overflows and landfills

Feels reduction in collection cost

Waste generation analysis taken to for all metrocities

Think no missed pickups and reduced overflows

Knowing the fill-level of a dustbins without having to visit the specific location makes it easier to allocate resources effective

Reduce the no of bins required- declutter and improving the street scene and using IOT make advanced in metro cities

Encourage recycling-on- the-go by ensuring Dustbins aren't over- flowing. Residents will be encouraged to put the right thing in the right bin when they're out and about.

SMART WASTE MANAGEMENT SYSTEM IN METRO CITIES

**smart waste**

21 standard bins were replaced with 10 "Compactor smart bins:. that squash the bins to fit more in and remotely report on fill levels

Smart Dustbin is just a normal bin where everyone can dispose waste but integration of some hardware components is done for more efficient use of it

Level of street cleanliness were not affected

DISPLAY: Smart indicators on the front display panel

DEODORIZER: Foul odor elimination

DURABLE & LONG LIFE:

Made with high quality materials for a long durable life

OPERATION: Automatic sensor based operation with zero manual intervention

HYGIENIC: Hygienic disposal with automatic and touch-less waste disposal

DISPLAY: Smart indicators on the front display panel

ENSURE HEALTH AND SAFETY WITH SMART DUSTBINS

Smart Dustbin is an intelligent dustbin that provides you 100% hygienic solution to everyday waste management.

waste collection can use the smart waste management software to optimize their collection routes

Misunderstanding of the operations of smart sensors

Non-optimized truck routes

It reduces infrastructure, operating and maintenance costs by upto 30%.

Optimized Routes are easy to choose Data analytics

# The systems can be costly initially because for

Transparency and Sustainability

Applying smart waste management process to the city optimizes management, resources and costs which makes it a "smart city"

It keeps our surroundings clean and green and free from bad odor of wastes, emphasizes on healthy environment and keep cities more beautiful

Eco-Friendly and improve efficiency

It’s difficult to link systems from different vendors

Shortfall of public knowledge and awareness

Non-uniform waste distribution of waste in bins

more testing

required