



ER. PERUMAL MANIMEKALAI
COLLEGE OF ENGINEERING, HOSUR

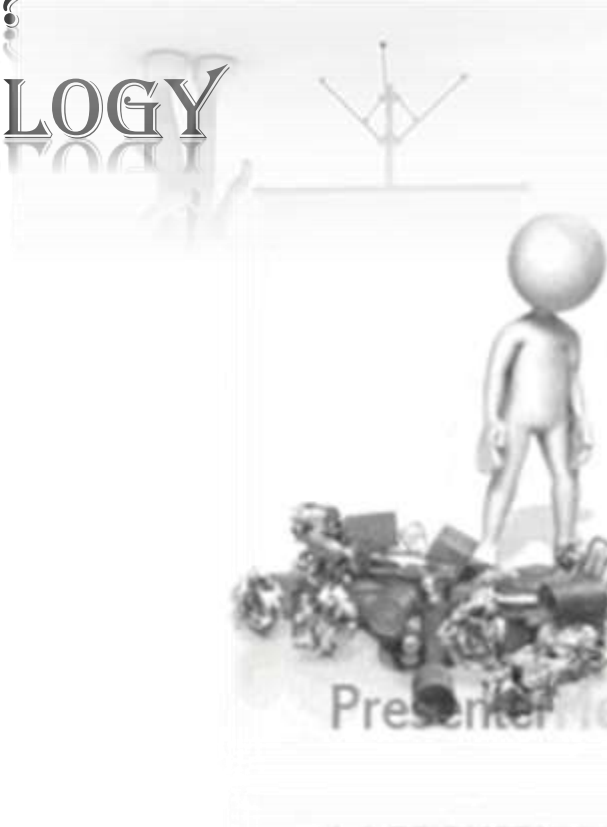
The background is a light green gradient. On the left, there is a stylized green wind turbine. In the center and right, there is a green silhouette of a city skyline with various skyscrapers, some with solar panels on their roofs. At the bottom right, there is a small green silhouette of a car. The title text is centered and has a reflection effect below it.

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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CONTENT'S:

- ▶ INTRODUCTIONS
- ▶ WHAT'S SMART?
- ▶ SMART TECHNOLOGY
- ▶ G2G
- ▶ SMART BINS
- ▶ BOONS & BANS
- ▶ CONCLUSION



WasteBazaar

Redefining Waste Collection in Africa

Redefining Waste Collection in Africa

WasteBazaar

SMART WASTE MANAGEMENT

- ▶ The system notifies the garbage truck driver when the garbage has to be removed based on the garbage level of the bin. The server sends SMS to the assigned mobile number which provides a route to the driver based on all the data collected from bins. This system makes waste management in metropolitan cities more efficient.





ORGANIC WASTE CONVERTER

100 %
WASTE CONVERSION

PT ECOLOGICAL
SERVICES PVT. LTD

ORGANIC WASTE CONVERSION PROCESS

ORGANIC WASTE CONVERSION PROCESS

ORGANIC COMPOST

ORGANIC COMPOST

PT ECOLOGICAL
SERVICES PVT. LTD

100 %
WASTE CONVERSION

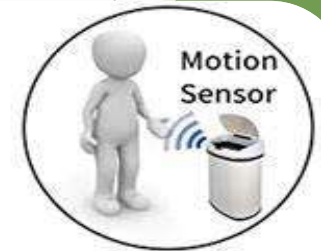


A Smart Waste Management Solution for Smart Cities!

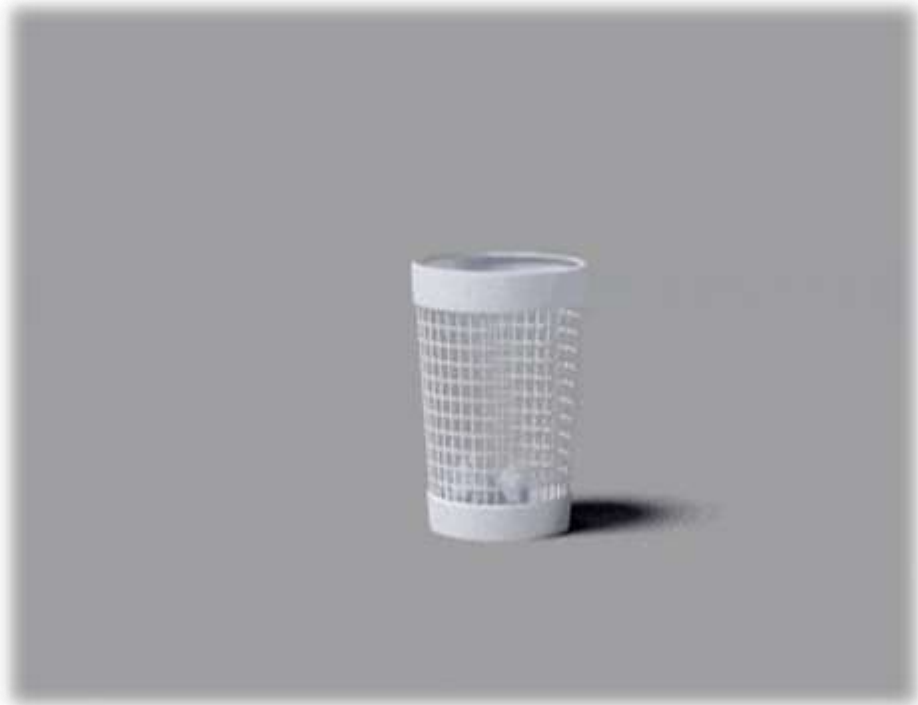



SMART:

- ▶ S-AVE
- ▶ M-ONEY
- ▶ A-ND
- ▶ R-EDUCE
- ▶ T-RASH

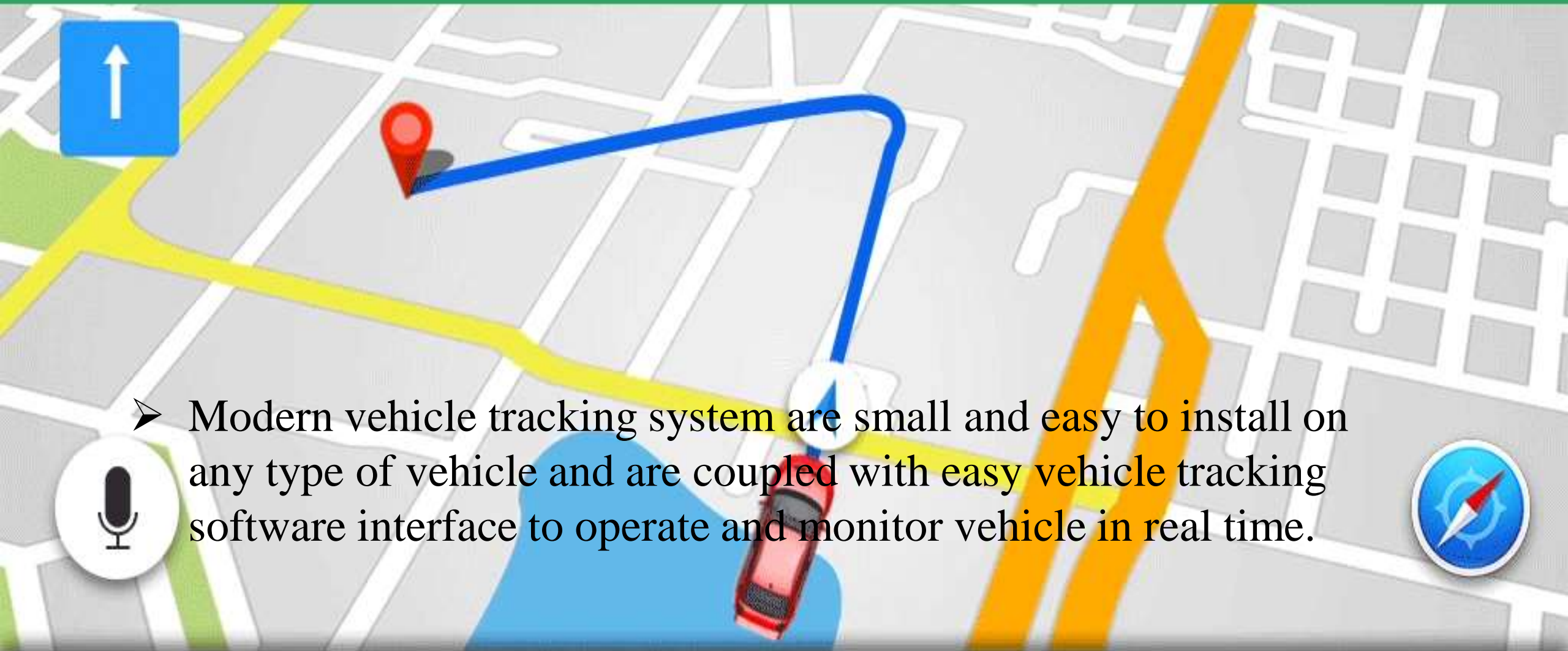


GARBAGE TO GOLD



- 
- Reduced Waste Collection The application of smart waste management to waste collection has proved that it is possible to reduce collections by up to 80% whilst maintaining and improving customer service levels.
 - Collection of Data
 - Improved Recycling

Octovia Street



- Modern vehicle tracking system are small and easy to install on any type of vehicle and are coupled with easy vehicle tracking software interface to operate and monitor vehicle in real time.



32mins

220mi

4:30 pm



1. General Information

City: State: Year of data: City population affected by SMART:

2. Disposal Data

Current residential disposal: tons per yearLandfill/combustor tip fee: per tonWaste Disposal Breakdown ☐ Use national averageLandfill Waste-to-energy (WTE)

Disposal Practice (%):

Disposal must total 100%

Distance to landfill milesDistance to WTE facility miles☐ Use national average☐ Use national averageCurrent residential combined recycling and composting: tons per yearRecycling cost: per ton

3. Waste Stream Composition

Current disposal stream composition by weight (%) ☐ Use national average

| | |
|----------------|------------------------------|
| Metal | <input type="text"/> |
| Glass | <input type="text"/> |
| Plastic | <input type="text"/> |
| Paper | <input type="text"/> |
| Wood | <input type="text"/> |
| Food Scraps | <input type="text"/> |
| Yard Trimmings | <input type="text"/> |
| Total | ERROR: Total must equal 100% |

Material composition must sum to 100%

Current combined recycling and compost stream composition by weight (%) ☐ Use national average

| | |
|----------------|------------------------------|
| Metal | <input type="text"/> |
| Glass | <input type="text"/> |
| Plastic | <input type="text"/> |
| Paper | <input type="text"/> |
| Wood | <input type="text"/> |
| Food Scraps | <input type="text"/> |
| Yard Trimmings | <input type="text"/> |
| Total | ERROR: Total must equal 100% |

Material composition must sum to 100%

Click to see the results



MOVING SMART BINS



BOON

- ▶ This is the best way to solve the waste management.
- ▶ These methods are Eco-friendly.
- ▶ This is not harmful for any creature.
- ▶ This will increase the employment of human.

BANE

- ▶ The burning of plastics cause lung issues.
- ▶ It affects the human and animals life.
- ▶ This is harmful to the endangered species.
- ▶ This affects the flora and fauna too.

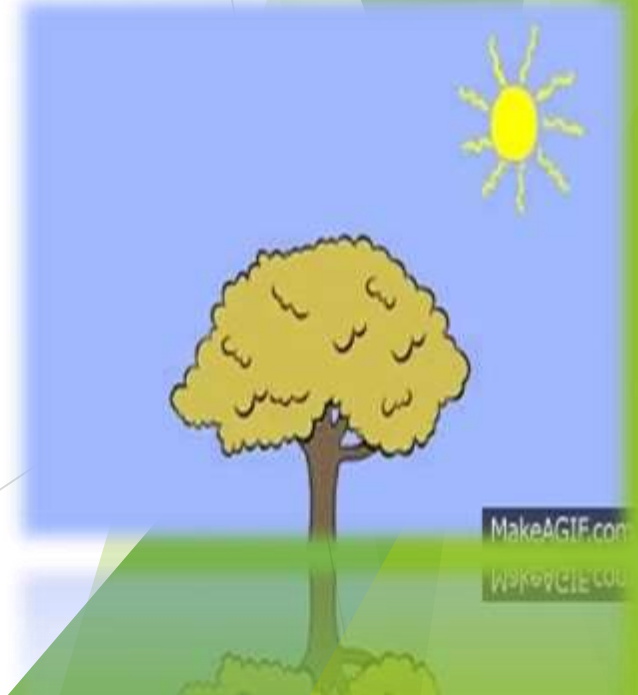


REDUCE



CONCLUSION:

- ▶ (a) Extensive sensitization for source segregation through media.
- ▶ (b) Ensuring separate collection of segregated waste to encourage source segregation.
- ▶ (c) Exposure visits for stake holders, especially school children to the decentralized compost park and other SWM facilities.
- ▶ (d) Encouraging home and back yard composting.
- ▶ (e) Campus waste management by educational institutions and bulk waste generator.
- ▶ (f) Government officials could be re-sensitized on solid waste management.
- ▶ Best solution for the environment.





THANK YOU

ANY QUERIES?