Waste Management - A Modern Approach





The Start Of Garbage

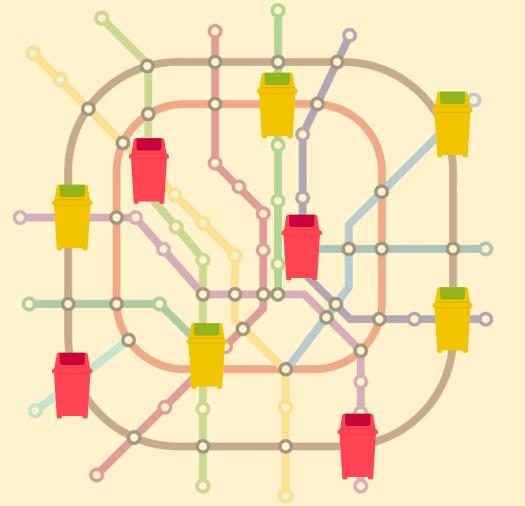
Dustbin



Using Ultrasonic Sensors Connected to City Servers...

...Detect Filling of Garbage Bins and notify servers.









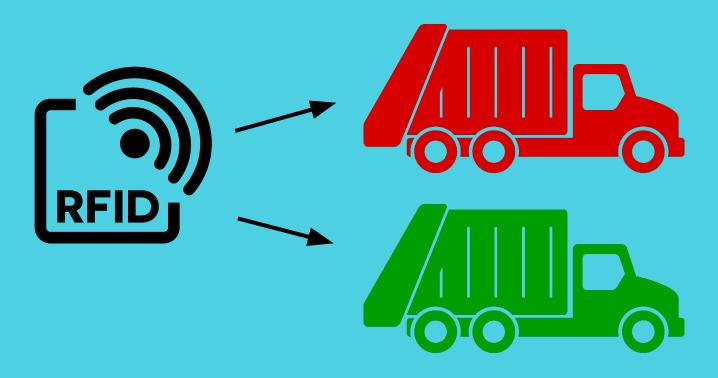


Full Dustbin



Semi Filled Dustbin

Wet and Dry Waste Containers Differentiated by RFID



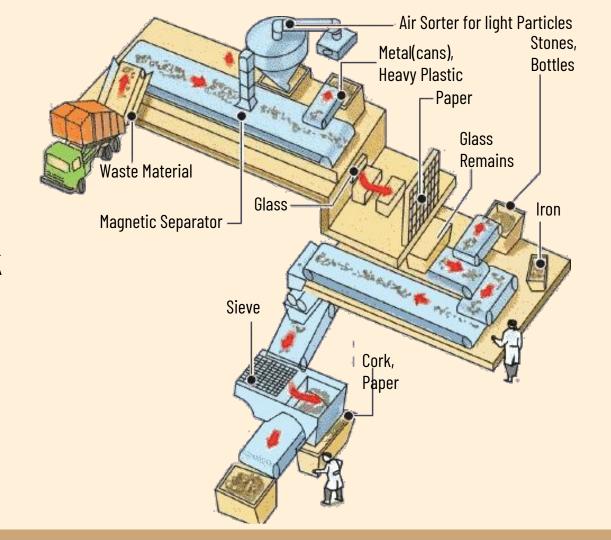


Garbage Trucks follow the **optimized** route planned with the help of **data** from the sensors

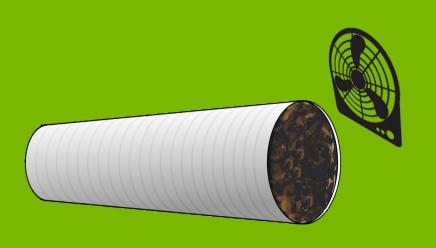


Dry waste processing

Tagging each Batch with QR Code to track them throughout the process with minimal losses.



Wet waste processing



Using rotating drum dryer to reduce amount of moisture by upto **50**%

Making both:

Transport Easy

& Incineration Safe

Plastic recycling







Construction Material

































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Circular economy

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Plastic roads: India's radical plan to bury its garbage beneath the streets

In India, roads made from shredded plastic are proving a popular solution to tackling waste and extreme weather

Sribala Subramanian

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Electronic Waste Recycling

- 1. Goes through WEEE (Waste Electrical and Electronic Equipment)
- 2. Separating different metal further using Eddy current.
- 3. Proper handling of Lithium required

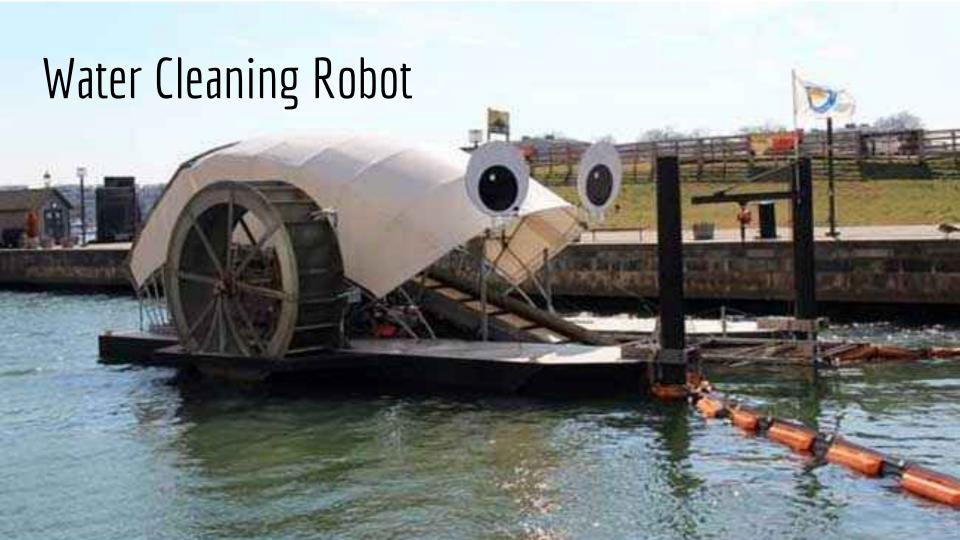


Solar Incineration

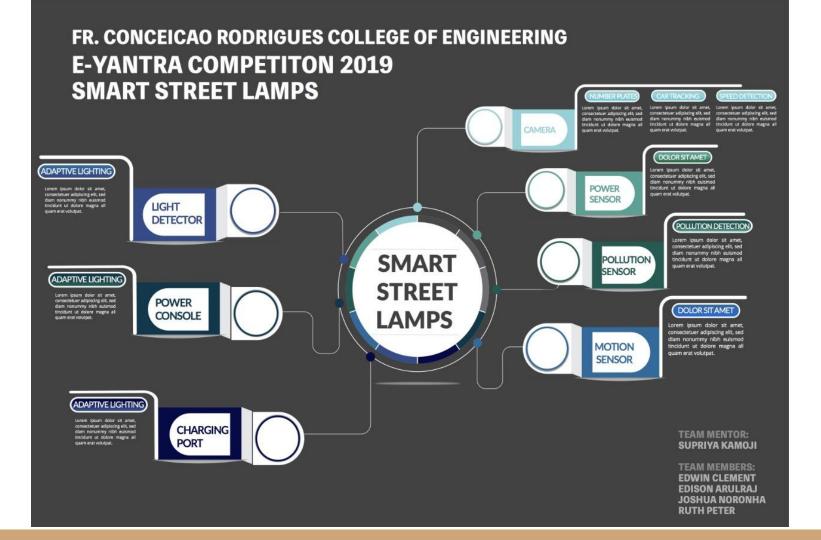
Less By-products.

Saves and generates power.

Energy produced is ~550 kWh/ton





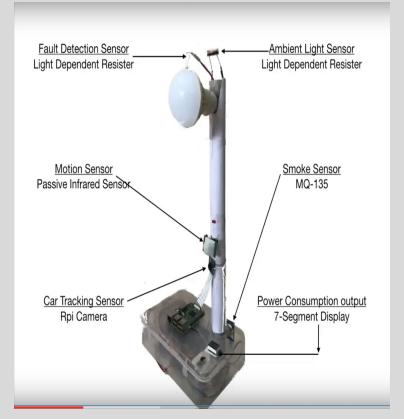


Light Pollution

adaptive lighting

Air pollution

- Electric vehicle
- Traffic management using cameras on street lamp



The future: Pneumatic Waste Disposal

- Underground waste disposal system
- Completely automated
- Garbage segregated at source and sent to appropriate centres