

Decentralized Waste Management using Blockchain



Tradition Waste Management

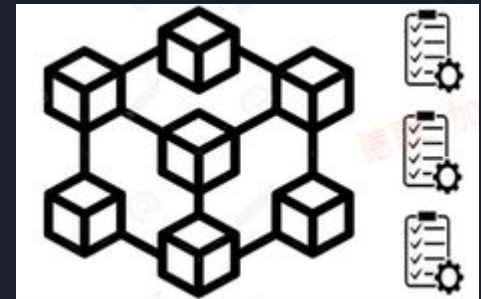
- Current Waste management process *still functions as 30 years ago.*
- Difficult to track, reason being the high volume of waste and variety of processes used.
- Current recycling program has no incentive for participants.

Decentralized Waste Management using Blockchain

- Decentralized peer to peer network connects all parties.
- Removes unnecessary interference of middlemen.

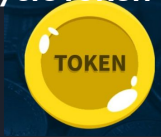
What are the benefits ?

- Real time tracking of amount of material recycled , costs , profits , right from generation to disposal, transparency.
- Evaluate impact of each participants.
- Able to hold people accountable.
- Empowers waste management communities.
- Cuts Logistic cost , reduces manual handling .
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Main Elements

Token incentive: RecycleToken



DAPP (Decentralized Application)



Smart Garbage Bins



- ultrasonic sensors monitor bin level.
- weight sensors measure the weight of the trash stored.

Smart Garbage Trucks



- sensors can notify once the truck has reached its maximum load capacity.

Usage

- Financial reward in form of a token.
- Token are given to motivate stakeholders to adopt and participate within the system.
- Can be redeemed for public services Bus, Subway, utility bills, taxes etc.
- Exchange for fiat currency.

- DAPP enables all users of the platform to gain access, participate and monetize value in the tokenized economy with utility token.
- Need identity authentication.

Consumers

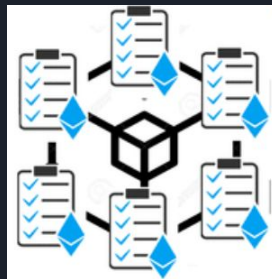


1. Use DAPP to deposit waste

Smart Bins



2. Identify user, location, measures, waste type, amount of waste, how full the bin is



Blockchain Platform

Waste collector

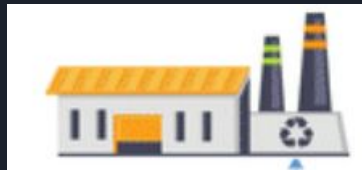


4. Accepts the request for transportation.

Route optimization according to waste data

5. Confirm receiving & Issue tokens.

Recycling Plants



Inspection, Sorting, Recycling, Disposal

penalties for non compliance

public-private partnerships between a government body and private entities.

Government body



Government imposed tax

immutable Data in blockchain helps authorities to manage resources.