

## Project Design Phase-I

### Problem Solution Fit

Team ID	PNT2022TMID18390
Project Name	Smart Waste Management System For Metropolitan Cities

#### Problem Solution Fit template: Smart management System For Metropolitan Cities for Waste Management

Define CS, fit into CC

##### 1. CUSTOMER SEGMENT(S)

The customer here is the people who live around the public garbage bins and domestic animals and the person who collects the waste particularly the person with health issues.

##### 6. CUSTOMER CONSTRAINTS

- People may feel disgusted to clean the garbage by themselves
- When the garbage or wastes spill out of the bins
- Bad odor resulting from the waste.

##### 5. AVAILABLE SOLUTIONS

- Can create a software for monitoring wastages
- Household wastes are incinerated in the backyard or nearby.
- Environmental racism

Explore AS, differentiate



**2. JOBS-TO-BE-DONE / PROBLEMS** J&P

- Notifying the garbage collector about the overflow of trash containers to empty the garbage container frequently.
- Making the environment clean and eco-friendly.
- Preventing people from respiratory diseases.

**9. PROBLEM ROOT CAUSE** RC

- No proper monitorization of the fill level of garbage in the bins kept for public disposal of waste.
- People's lethargicness and irresponsibility.

**7. BEHAVIOUR** BE

- Monitoring of waste level by using some technologies and software to dispose it in the correct time.

**3. TRIGGERS** TR

- Since wastes are collected and disposed properly at a right time, people will be aware of the act and triggered to put the waste only in the trash container.

**4. EMOTIONS: BEFORE / AFTER** EM

- **BEFORE** : Frustration, fear of health issues like shin diseases and respiratory infections.
- **AFTER** : Satisfaction, Calm state of mind, cleanliness, Eco-friendly

**10. YOUR SOLUTION** SL

- Proper monitoring of garbage level using sensors to avoid overflow of wastes
- Frequent collection of wastes by the waste collectors by the proper channel of communication.

**8.CHANNELS of BEHAVIOUR** CH

concern towards the society and its

Online:

- Advertise or spread news over social media on keeping the environment clean.

Offline:

- People who actually cares about the sanitization of environment conduct awareness campaign as volunteers, rally.
- Conduction of awareness programs.
- Inclusion of this issue in the schools books to create awareness and making the upcoming young generation with responsibilities and wealth.

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