Project Design Phase-I – Problem Solution Fit

Project Title: Smart Waste Management System for Metropolitan Cities

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Municipality and Local authorities of Metropolitan cities of India are the customers.

6. CUSTOMER CONSTRAINTS CC

1. Lack of infrastructure
2. Cost
3. Limitation of technology
4. Lack of participation in waste segregation

5. AVAILABLE SOLUTIONS AS

1. Central point for managing daily operations.
2. Identification, track & control the infrastructure of smart waste management.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

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

1. Avoid fixed routine for waste collection
2. Avoid overflowing of bins
3. Proper Segregation of wastes

9. PROBLEM ROOT CAUSE RC

1. Increased population growth and urbanization leads to escalation of wastes
2. Lack of waste disposal due to this the garbage end up in the roads and surroundings

7. BEHAVIOUR BE

1. Sensors are used to sense the amount of waste in the trash
2. People must wait until the next day for the garbage to be cleared by the truck drivers

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TR

To make the environment disaster free and clean and to save the people for some toxic wastes.

4. EMOTIONS: BEFORE / AFTER EM

Before:

People get irritated on seeing the wastes that end up on the roads

After:

After the cleaning of trash people feel pleasant and secure

10. YOUR SOLUTION SL

1. Regular monitoring of waste disposals
2. Creating an app for monitoring the location, weight, and level of garbage cans
3. Solar power usage

8.CHANNELS of BEHAVIOUR CH

8.1 ONLINE

1. We can monitor in live
2. People can give complaints and feedback about the work

8.2 OFFLINE

Taking necessary action on collecting the garbage regularly