Project Design Phase-I - Solution Fit

Project Title: Smart Waste Management System for Metropolitan Cities

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1. CUSTOMER SEGMENT(S) `CS`

People and Local authorities of Metropolitan cities 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.

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
4. Lack of information about the collecting time and area

9. PROBLEM ROOT CAUSE `RC`

1. Increased population growth and urbanization leads to escalation of wastes
2. Lack of notifications about the garbage to the municipality

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

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. Maintenance of transport and workers.

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