Project Title: Smart Waste Management System For Metropolitan Cities

Project Design Phase-I - Solution Fit Template

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)   `CS`

. workers who are working in corporation

. automatic sensor based operation with zero manual invention

6. CUSTOMER CONSTRAINTS   `CC`

. recycling might be inexpensive

.insufficient data collection

5. AVAILABLE SOLUTIONS   `AS`

. Based on IOT technology smart waste management aims to optimize resource allocation , reduce running costs, and increases the sustainability of waste services.

Explore AS, differentiate

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

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

. Due to lack of proper collections of waste and garbage ends up in polluting the environment

9. PROBLEM ROOT CAUSE   `RC`

. The greatest problem regarding waste management in developing countries begins at the very starting point of the process

7. BEHAVIOUR   `BE`

. AI based smart waste bin , designed for public places enabling them to monitor and manage

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

. AI recycling robots & solar-power trash compactor

.Digitally improvement cities

. smart waste bins   `TR`

. The garbage bins are build with a sensor module(Ultrasonic   sensor)which continuously monitors the garbage level inside the garbage bin and sends an alert message to the garbage collector.   `SL`

8.1 ONLINE

. Garbage collector can monitor the level of the dustbin using the sensor

8.2 OFFLINE

. They have to manually check the garbage level each and every day. So that they have to spend for fuel every day

4. EMOTIONS: BEFORE / AFTER

. If the garbage bin is full in it may pollute the city and when we inhale such kind of hazardous smell that will lead to breathing problems . So when we collect the garbage properly there won't be any such kind of issues   **EM**