Project Design Phase-I
Problem - Solution Fit Template

Date	08 October 2022
Team ID	PNT2022TMID01880
Project Name	Project- About Smart Waste Management System For Metropolitan Cities
Maximum Marks	2 Marks

Problem - Solution Fit :

Project Title: Smart Waste Management System For Metropolitan Cities

Team ID: PNT2022TMID10856

Define CS, fit into

1. CUSTOMER SEGMENT(S) CS

- Our target is Public.
- Main purpose is to monitor the area and garbage bins
- Customer satisfaction is increasingly become an essential needed for marketers and customer service representatives.

6. CUSTOMER CC

- Lack of Waste Collecting Points
- Irregularity of Waste Collection
- Inadequate Waste Collection Vehicles
- Inadequate Access to Waste Bins
- Alternatives to Final Waste Disposal
- (Burning and Illegal Dumping)
- Improper Waste Separation Facilities

5. AVAILABLE SOLUTIONS AS

- Create an emergency readiness plan for network problem
- Solar power usage for spending power problem.
- Review compliance guidelines

Explore AS,

Focus on J&P, tap into BE, understand

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

1. Waste disposal :
Perform regular audits on waste management & disposal.
2. Germs spreading:
Using Optical bio-sensor we can monitor how much amount of germs in the garbage can.
3. If the garbage has more bacteria or virus then alert message should send
to the workers for immediate cleaning purpose.

9. PROBLEM ROOT CAUSE RC

- Smart waste management is characterized by the usage of technology in order to be more efficient when it comes to managing waste.
- This makes it possible to plan more efficient routes for the trash collectors who empty the bins, but also lowers the chance of any bin being full for over a week

7. BEHAVIOUR BE

- First, setup Smart Garbage Management system in the public places
- Take survey on the usage and drawbacks if any.
- If the people are satisfied with the demo, then setup the smart Waste Management system in all places.

Focus on J&P, tap into BE, understand

Identify strong TR & EM

3. TRIGGERS TR

- Real-time waste monitoring. Predictions for bin fullness. Detailed database of bins and stands.
- Interactive bin map including Street view. Route planning for waste collection.

4. EMOTIONS: BEFORE / AFTER EM

BEFORE: They may think it is new to market so it takes much risk while investing and they think it involves high maintenance.

AFTER: People may feel good and comfortable once all project is set. And so be seeing updated technology and the scope towards IOT may impress people.

10. YOUR SOLUTION SL

Network issue:
Create an emergency readiness plan
Spending power:
Solar power usage
Waste disposal:
Perform regular audit on waste management & disposal

8. CHANNELS of BEHAVIOUR CH

8.1 ONLINE

- We can monitor in live
- It takes time to reach customers

8.2 OFFLINE

- It reaches the customers quickly.We cannot monitor in live
- Cannot know about it's efficiency in disaster time because of network issue

- It reaches the customers quickly.We cannot monitor in live