Project Title: Smart Waste Management System For Metropolitan Cities | **Project Design Phase-I** - Solution Fit Template | **Team ID:** PNT2022TMID25311

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

Customers in metropolitan cities include the general public, business people, and local governments.

6. CUSTOMER CONSTRAINTS — CC

`1. Lack of infrastructure
2. Cost
3. Limitation of technology
4 Absence of involvement in trash separation.

5. AVAILABLE SOLUTIONS — AS

1. The command centre for daily activities.
2. Identification, tracking, and control of the smart waste management infrastructure.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

1. Avoid a regular waste collection schedule.

2. Prevent containers from overflowing.

3. Proper Waste Segregation.

4. Lack of knowledge about the collection period and location.

9. PROBLEM ROOT CAUSE — RC

1. A rise in trash is a result of urbanisation and population increase.

2. There is a lack of waste disposal, and as a result, trash ends up on the roadways and in the neighbourhood.
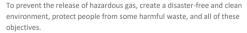
3.Inadequate public awareness

7. BEHAVIOUR — BE

1. Sensors are utilised to determine how much garbage is in the trash.
2. The public must wait until the following day for the truck drivers to remove the waste.
3.After customer knows actual conditions ,after that as per its they do action.

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

3. TRIGGERS — TR

To prevent the release of hazardous gas, create a disaster-free and clean environment, protect people from some harmful waste, and all of these objectives.

It offers hygienic, effective, and affordable solid waste storage, collection, transportation, and disposal of garbage without soil damaging the environment.

4. EMOTIONS: BEFORE / AFTER — EM

Before : People are annoyed when they see waste on the roads.
After : People feel relieved and comfortable after trash collection.

10. YOUR SOLUTION — SL

1. Sensor-based garbage disposal monitoring on a regular basis.
2.Developing an app to track the location, weight, and level of garbage cans.
3.Detection of toxic gas emissions from garbage cans using sensors
4. Cost-effective transportation and worker maintenance
5.separation of trash into categories such as biodegradable, nonbiodegradable, and e waste.

8. CHANNELS of BEHAVIOUR — CH

8.1 ONLINE
1. We can monitor it in real time.
2. People can make complaints and provide feedback on the job.
3.Easy to track whether or not the rubbish is filled under certain situations, and if not, avoid truck trips and checking garbage cans for waste collection.

8.2 OFFLINE
 Taking the essential actions to collect waste on a regular basis.