# Project Design Phase-I Problem – Solution Fit

Date	22 October 2022	
Team ID	PNT2022TMID03917	
Project Name	Smart Waste Management System for Metropolitan	
	Cities	

Define CS, fit into CC	CS  1. CUSTOMER SEGMENT(S)  In order to manage and dispose of rubbish effectively, we are creating a smart IOT-based waste management system for metropolitan areas as part of our research. Our customers are waste holders like everyday people, owners, or shopkeeper.	6. CUSTOMER CONSTRAINTS  Bins for separation are not offered. People put trash beside highways in plastic bags.  Because there are no set locations or schedules for garbage pickup, people are unsure about where to place their trash.	5. AVAILABLE SOLUTIONS   ♣ Use a reusable bottle/cup and bags for beverages onthe-go Shop eco _friendly withreusable bags.  ♣ Due to their ability to detect the quantity of waste and notify users, digital trash cans are a better option than dustbins.	AS
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#### BE J&P RC Focus on J&P, tup into BE,understand RC 9. PROBLEM ROOT CAUSE 7. BEHAVIOUR 2. JOBS-TO-BE-DONE / **PROBLEMS** The waste/recycling business less waste collections would has considerable safety be required, which would organize and manage waste require less labour, emissions, problems. disposal, collection and fuel, and road congestion. recycling facilities. **Chemical exposure, flammable** detect location, dust explosions, machine temperature, and fill level guarding risks, and contact in real time. with machinery are a few of this data is then used to them.. plan optimal collection Poor disposal of hospital routes, resulting in an waste cause major health issue. efficient pickup process.

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### 3. TRIGGER

implementing By this initiative, we may inspire individuals by showing them how their neighbors are using technology more effectively and by reading about a more effective approach in the news.

**EM** 

# **4.EMOTIONS: BEFORE** /AFTER

- Before development of this technology, air pollution from waste products caused health problems in society and directly affects ecosystems and species.
- **\*** After implementation of smart waste management system our environment will be neat and clean.

#### **10. YOUR SOLUTION**

**Our** solutions aim to effectively manage waste by alerting users to the volume of waste as well as authenticating individuals who collect it and move on to further processing with the garbage.

SL

# 8.CHANNELS of **BEHCHANAVIOUR**

#### **ONLINE:**

If it is in online mode, people may review about the overflow of waste

СН

#### **OFFLINE:**

If it is offline every day the waste collecting trucks will collect garbage from home.