<u>Project Design Phase-I</u> <u>Problem – Solution Fit Template</u>

Date	20-SEP2022
Team ID	Team ID: PNT2022TMID46746
Project Name	Project – smart waste management for metropolitan cities
Maximum Marks	2 Marks

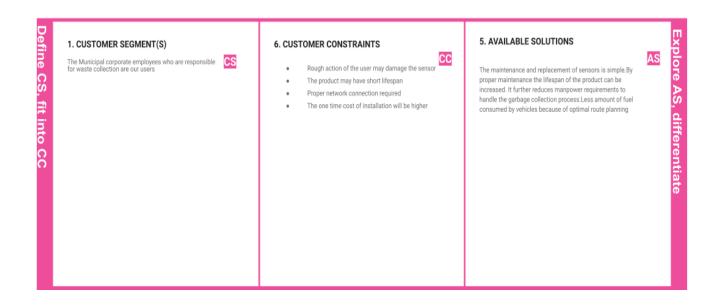
Problem – Solution Fit Template:

A growing population and economy, which means increased volumes of waste generated. This puts pressure on waste management facilities, which are already in short supply.

Growing pressure on outdated waste management infrastructure, with declining levels of capital investment and maintenance.

Waste management suffers from a pervasive under-pricing, which means that the costs of waste management are not fully appreciated by consumers and industry, and waste disposal is preferred over other options.

Template:



2. JOBS-TO-BE-DONE

J&P

Monitoring amount of waste present.

Alerting the respective people incharge of this.

Provide shortest and a fastest way for the collection of

9. PROBLEM ROOT CAUSE



Municipal Solid Waste Management is of critical concern and needs attention. The rapid urbanization and industrialization has led to increased solid waste generation, about 2.1 billion tonnes of municipal solid waste is generated annually around the globe. So the traditional methods of waste collection have become inefficient and costly. The main objective is to maximize waste collection and optimize the work for municipal corporations.

7. BEHAVIOUR

BE

Find the required sensors based on the requirement and get the expected results

Type your text

3. TRIGGERS

The efficeint of the solution and the chage to a better environmen

10. YOUR SOLUTION

8. CHANNELS of BEHAVIOR



Our solution is to provide a smart waste management system where sensors are fitted inside the dustbins which collect the waste in the locality and alert the respective people to collect and segregate the waste. The system also provides route planning for the collection of the waste.

8.1 ONLINE



The customers can view the levels of the bins and shortest path routing.

8.2 OFFLINE

Customers need to process their regular waste collection techniques.

4. EMOTIONS: BEFORE / AFTER



TR

Provides a better environment to the people living around the areas of the bins because it alerts the respective persons to take action and eliminates the possibility of overflow of the bins and hence cleanliness is always maintained.