

## Project Design Phase-I Problem – Solution Fit Template

Date	08 October 2022
Team ID	PNT2022TMID10856
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) <span style="float: right;">CS</span>	6. CUSTOMER <span style="float: right;">CC</span>	5. AVAILABLE SOLUTIONS <span style="float: right;">AS</span>	Explore AS.
	<ul style="list-style-type: none"> <li>➤ Our target is Public.</li> <li>➤ Main purpose is to monitor the area and garbage bins</li> <li>➤ Customer satisfaction is increasingly become an essential needed for marketers and customer service representatives.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lack of Waste Collecting Points</li> <li>➤ Irregularity of Waste Collection</li> <li>➤ Inadequate Waste Collection Vehicles</li> <li>➤ Inadequate Access to Waste Bins</li> <li>➤ Alternatives to Final Waste Disposal (Burning and Illegal Dumping)</li> <li>➤ Improper Waste Separation Facilities</li> </ul>	<ul style="list-style-type: none"> <li>➤ Create an emergency readiness plan for network problem</li> <li>➤ Solar power usage for spending power problem.</li> <li>➤ Review compliance guidelines</li> </ul>	
Focus on J&P, tap into BE, understand	2. JOBS-TO-BE-DONE / PROBLEMS <span style="float: right;">J&amp;P</span>	9. PROBLEM ROOT CAUSE <span style="float: right;">RC</span>	7. BEHAVIOUR <span style="float: right;">BE</span>	Focus on J&P, tap into BE, understand
	<ol style="list-style-type: none"> <li>1. Waste disposal : Perform regular audits on waste management &amp; disposal.</li> <li>2. Germs spreading: Using Optical bio-sensor we can monitor how much amount of germs in the garbage can.</li> <li>3. If the garbage has more bacteria or virus then alert message should send to the workers for immediate cleaning purpose.</li> </ol>	<ul style="list-style-type: none"> <li>➤ Smart waste management is characterized by the usage of technology in order to be more efficient when it comes to managing waste.</li> <li>➤ 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</li> </ul>	<ul style="list-style-type: none"> <li>➤ First, setup Smart Garbage Management system in the public places</li> <li>➤ Take survey on the usage and drawbacks if any.</li> <li>➤ If the people are satisfied with the demo, then setup the smart Waste Management system in all places.</li> </ul>	
Identify strong TR & EM	3. TRIGGERS <span style="float: right;">TR</span>	10. YOUR SOLUTION <span style="float: right;">SL</span>	8. CHANNELS of BEHAVIOUR <span style="float: right;">CH</span>	It reaches the customers quickly. We cannot monitor in live
	<ul style="list-style-type: none"> <li>➤ Real-time waste monitoring. Predictions for bin fullness. Detailed database of bins and stands.</li> <li>➤ Interactive bin map including Street view. Route planning for waste collection.</li> </ul>	<p>Network issue: Create an emergency readiness plan</p> <p>Spending power: Solar power usage</p> <p>Waste disposal: Perform regular audit on waste management &amp; disposal</p>	<p>8.1 ONLINE</p> <ul style="list-style-type: none"> <li>● We can monitor in live</li> <li>● It takes time to reach customers</li> </ul> <p>8.2 OFFLINE</p> <ul style="list-style-type: none"> <li>● It reaches the customers quickly. We cannot monitor in live</li> <li>● Cannot know about it's efficiency in disaster time because of network issue</li> </ul>	
Identify strong TR & EM	4. EMOTIONS: BEFORE / AFTER <span style="float: right;">EM</span>			
	<p>BEFORE: They may think it is new to market so it takes much risk while investing and they think it involves high maintenance.</p> <p>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.</p>			