

## Project Design Phase-I Problem – Solution Fit

Date	20 October 2022
Team ID	PNT2022TMID20108
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	2 Marks

PROJECT TITLE: Smart Waste Management System For Metropolitan Cities  
TEAM ID: PNT2022TMID36201

### Project Design Phase -1- Solution Fit

7	Define CS, for into CL	<b>1. CUSTOMER SEGMENT(S)</b> <span style="float: right; color: #e91e63;">CS</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> Citizens of metropolitan cities. The public people who use the public dust bind to dispose their daily household wastes. </div>	<b>6. CUSTOMER LIMITATION</b> <span style="float: right; color: #e91e63;">CC</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> The proper management of waste must be required and the fear of advanced technology </div>	<b>5. AVAILABLE SOLUTIONS</b> <span style="float: right; color: #e91e63;">AS</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> A reduction in the number of waste collections needed by up to 80%, resulting in less man power, emissions, fuel use and traffic congestion. A reduction in the number of waste bin needed. </div>	Explore AS differentiate
	Focus on J&P, tap into BE	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span style="float: right; color: #e91e63;">J&amp;P</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> The causes of the pollution to the environment. It acts as a breeding ground to the insects such as mosquitos which causes diseases. </div>	<b>9. PROBLEM ROOT CAUSE</b> <span style="float: right; color: #e91e63;">RC</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> The lack of public awareness and poor attitudes leads to problem and the missed pick – ups. The main reason for this problem is the bin not being emptied by the staffs in that area on time due to which it overflows on roads. </div>	<b>7. BEHAVIOUR</b> <span style="float: right; color: #e91e63;">BE</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> <p><b>Directly-Related:</b> The people tend to just throw away the wastes along with the others overflowing wastes around the bin and walk back.</p> <p><b>Indirectly-Related:</b> Some public volunteers tend to clean them if not cleaned for a long time. Some people may complain to cleaning staff that the bin is overflowed on roads.</p> </div>	Focus on J&P, tap into BE
Identify strong TR & EM	Identify strong TR & EM	<b>3. TRIGGERS</b> <span style="float: right; color: #008080;">TR</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> Seeing other people being lethargic and throwing wastes outside the bin is forcing others to do the same. </div>	<b>10. YOUR SOLUTION</b> <span style="float: right; color: #4b0082;">SL</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> The bins can be monitored frequently with the help of a sensor through which the admin or the authorized person can check the level of the bin and report it to the area cleaning staffs about the fullness of the bin so that they can empty the bin on the time. To make it a little easier the web application shows high level bin and then the others. To make it more unique a solar panel can be used for the electrical circuits for this mechanism </div>	<b>8. CHANNELS of BEHAVIOUR</b> <span style="float: right; color: #008080;">CH</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> Create awareness through social media and share their views on the issues and in the OFFLINE we have to create the awareness through campaign. </div>	Extract online & offline CH of BE
	Identify strong TR & EM	<b>4. EMOTIONS: BEFORE / AFTER</b> <span style="float: right; color: #008080;">EM</span> <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> <p><b>BEFORE:</b> The customers feel unpleasant with the environment.</p> <p><b>AFTER:</b> Happy, pleasant and satisfied with the environment.</p> </div>			