

## Project Design Phase-I

### Problem Solution Fit

Date	09 November 2022
Team ID	PNT2022TMID05379
Project Name	Smart Waste Management System For Metropolitan Cities

Define CS, fit into CL	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> <div> <p>The term solid waste management mainly refers to <b>the complete process of collecting, treating and disposing of solid wastes</b></p> </div>	<b>6. CUSTOMER LIMITATIONS</b> <small>EG. BUDGET, DEVICES</small> <span>CL</span> <div> <p>Waste in different forms such as solid waste, gaseous waste and liquid waste increases due to population increase, urbanization, and industrialization and affect the globe.</p> </div>	<b>5. AVAILABLE SOLUTIONS</b> <small>PLUSES &amp; MINUSES</small> <span>AS</span> <div> <p>The objectives of writing this paper is to study the current practices related to the various waste management</p> </div>	Explore AS, differentiate
	<b>2. PROBLEMS / PAINS</b> <small>+ ITS FREQUENCY</small> <span>PR</span> <div> <ul style="list-style-type: none"> <li>smart waste management aims to optimize resource allocation</li> <li>increase the sustainability of waste services.</li> </ul> </div>	<b>9. PROBLEM ROOT / CAUSE</b> <span>RC</span> <div> <p>#This category presents a set of theories that aid in understanding the nature and causes of individual WM behavior</p> <p>It is an intervention model that has been applied in the behavioral analysis of pro-</p> </div>	<b>7. BEHAVIOR</b> <small>+ ITS INTENSITY</small> <span>BE</span> <div> <p>Waste management is an integral part of a sustainable Canberra and is an issue that affects every individual and organisation in the ACT</p> <p>unwanted and unusable materials and is regarded as a substance</p> </div>	
Identify strong TR & EM	<b>3. TRIGGERS TO ACT</b> <span>TR</span> <div> <p>reusing materials that would otherwise be discarded, by recycling materials and by using recycled</p> </div>	<b>10. YOUR SOLUTION</b> <span>SL</span> <div> <p>To help minimize unnecessary trips to and from landfills, companies and communities can <b>install waste level sensors in bins or dumpsters of any size.</b></p> <p>These devices collect and store data on fill levels, allowing collection services to predict how often bins</p> </div>	<b>8. CHANNELS of BEHAVIOR</b> <span>CH</span> <div> <p>We can significantly reduce the amount of solid waste</p> <p>by following some basic principles of reducing the amount of waste that is created</p> </div>	Extract online & offline CH of BE
	<b>4. EMOTIONS</b> <small>BEFORE / AFTER</small> <span>EM</span> <div> <p>System requires more number of waste bins for separate waste collection as per population in the city. This results into high initial cost due to expensive smart dustbins</p> </div>			