

Project Design Phase-I

Problem Solution Fit

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Team ID	PNT2022TMID17404
Project Name	Smart Waste Management System For Metropolitan Cities

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