

Project Design Phase-1

Solution Fit Template

Smart Waste Management System In Metropolitan Cities

Team Id : PNT2022TMID52032

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Smart waste management is about using technology and data to create a more efficient waste industry. Based on IoT (Internet of Things) technology, smart waste management aims to optimize resource allocation, reduce running costs, and increase the sustainability of waste services.	6. CUSTOMER CONSTRAINTS CC No separation bins are provided. people leave waste in plastic bags beside roads. Some households purchased waste bins but then others used these bins too. People do not know where to put their garbage because there are no fixed waste collection points or times for garbage collection.	5. AVAILABLE SOLUTIONS AS Smart waste management is characterized by the usage of technology in order to be more efficient when it comes to managing waste. 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.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEM J&P Identify the pre-incident WMP that best aligns with the specific incident, if applicable. Identify waste management-related policy or implementation issues that require resolution	9. PROBLEM ROOT CAUSE RC There are significant safety challenges facing the waste/recycling industry. They include chemical exposure, combustible dust explosions, machine guarding hazards, and exposure to powerful equipment with moving parts.	7. BEHAVIOUR BE A reduction in the number of waste collections needed by up to 80%, resulting in less manpower, emissions, fuel use and traffic congestion. A reduction in the number of waste bins needed. Analytics data to manage collection routes and the placement of bins more effectively.	
Focus on J&P, tap into BE, understand RC	3. TRIGGERS TR By installing this project we can trigger peoples by seeing their neighbour peoples make the utilization of technology more useful and reading about a more efficient solution in the news.	10. YOUR SOLUTION SL You can put that reusable bottle to use, save money and reduce waste. By taking your own water with you, you'll also reduce your chances of purchasing more expensive beverages on-the-go. This will eliminate the one-time use containers they come in. While most cans and bottles can be recycled, they require a lot of energy to be produced, shipped to the bottling facility and then to the store for purchase.	8. CHANNELS OF BEHAVIOUR CH ONLINE: people may provide review and rating for the system. OFFLINE: People may provide a valuable resource and contribution to the organization.	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	4. EMOTIONS: BEFORE / AFTER EM After the implementation of smart waste management system our environment will be neat and clean.			