

Project Design Phase-I - Solution Fit

Date	17 October 2022
Team ID	PNT2022TMID41570
Project Name	Smart waste management system for metropolitan cities
Maximum Marks	

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Every Citizens and Municipalities	6. CUSTOMER CONSTRAINTS CC Technology regarding Sensors, budget, no cash, network connection, available devices.	5. AVAILABLE SOLUTIONS AS Calling Municipality officers everytime to clean the bins Though the solution had sensors the GPS is not embedded	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P We resolving the problems on frequently filling bins. On integrating the GPS module the truck driver can easily find the exact location	9. PROBLEM ROOT CAUSE RC Frequent overflow of dustbin which causes disease to environment. Periodic checking for unfilled bins leads to increased manpower ,fuel usage and cost.	7. BEHAVIOUR BE customers spend free time on volunteering work (i.e calling municipality)	

Focus on J&P, top into BE, understand RC

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<div>3. TRIGGERS</div> <div>Achieving smart city</div> <div>Making the environment clean and disease free.</div>	<div>10. YOUR SOLUTION</div> <div>On creating the Smart waste Management System For Metropolitan Cities,we achieving the SWACHH Bharat system by embedding ultrasonic sensor and load sensor for detecting the level of the bin and GPS module is used for detecting the exact location of the dustbin and these data were collected and sent to</div>	<div>8. CHANNELS of BEHAVIOUR</div> <div>8.1 ONLINE</div> <div>Municipality officer can easily access through online(i.e web application) regarding the level of the bin.</div> <div>8.2 OFFLINE</div> <div>Doesn't create much impact on offline mode.</div>
<div>4. EMOTIONS: BEFORE / AFTER</div> <div>BEFORE:</div> <div>Endeavor Venture</div> <div>AFTER:</div> <div>Feeling Delightful Accessible Effortless</div>	<div>IBM cloud for analysis and the result were displayed</div>	

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