

Project Title: Smart Waste Management for Metropolitan Cities.  
Project Design Phase-I - Solution Fit Template

Team ID : PNT2022TMID18178

Define CS, fit into C	<div>1. CUSTOMER SEGMENT(S)</div> <div>Who is your customer?</div> <div>Our customers may be municipal corporation and private company in charge of emptying the dustbin and reinstalling.</div>	<div>6. CUSTOMER CONSTRAINTS</div> <div>What constraints prevent your customers from taking action or limit their choices of solutions?</div> <div>Proper infrastructure and mainly funding for the digital IOT device .</div>	<div>5. AVAILABLE SOLUTIONS</div> <div>Which solutions are available to the customers when they face the problem?</div> <div>LORA module to send the sensor data and GPS module to send the trash bin location. Weight sensor to detect the weight of the bin.</div>	Explore AS, differer
Focus on J&P, tap into BE, understand RC	<div>2. JOBS-TO-BE-DONE / PROBLEMS</div> <div>We would mainly concentrate in the checking of overflow of the bin and clear the waste as fast as possible.</div>	<div>9. PROBLEM ROOT CAUSE</div> <div>Mainly there is no proper monitoring system for corporation and private companies who collect the waste,which is also creating the overflow of the dustbin in local bin.</div>	<div>7. BEHAVIOUR</div> <div>What does your customer do to address the problem and get the job done?</div> <div>The customer which is either corporation or the private company may install other sensor such as ultrasonic sensor for better sensing.</div>	Focus on J&P, tap into BE, understand RC

Id n y s o g	<div>3. TRIGGERS</div> <div>TR</div> <div>This would trigger other area people to install smart bins because of its great efficiency.</div>	<div>10. YOUR SOLUTION</div> <div>SL</div> <div>I would have proposed the same IoT device that we are currently working on for waste management.</div>	<div>8.CHANNELS of BEHAVIOUR</div> <div>CH</div> <div>8.1 ONLINE The bin level related data would be obtained in online dashboard</div> <div>8.2 OFFLINE They would be able to get the fully filled trash bins and would be removing the waste and loading in truck.</div>	
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T & E	<div>4. EMOTIONS: BEFORE / AFTER</div> <div>EM</div> <div>How do customers feel when they face a problem or a job and afterwards?</div> <div>They would be frustrated because of the overflowed garbage bins.</div>			
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