

Project Design Phase-I - Solution Fit

Project Title: SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

Team ID: PNT2022TMID07317

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS <ul style="list-style-type: none">▪ Garbage collector▪ Municipal Corporation▪ Health sector (public)	6. CUSTOMER CONSTRAINTS CC <ul style="list-style-type: none">▪ There is no system that can update the bin status▪ Timely alerting the user	5. AVAILABLE SOLUTIONS AS <ul style="list-style-type: none">▪ Garbage crushers▪ Biodegradable/ Non-biodegradable waste collectors▪ Man powered garbage collection▪ Location tracking system in garbage bins	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS JP <ul style="list-style-type: none">▪ Timely collection of trashes is an essential part of the problem▪ Collecting wastes during morning and evening leads to more traffic in metropolitan cities	9. PROBLEM ROOT CAUSE RC <ul style="list-style-type: none">▪ Increasing in population increases the wastes▪ Busy working peoples	7. BEHAVIOUR BE <ul style="list-style-type: none">▪ Clean and healthy environment▪ Smartening the waste management system▪ Can monitor the bin wherever we are	
Focus on J&P, tap into BE, understand RC				Focus on J&P, tap into BE, understand RC

<div>3. TRIGGERS</div> <div>TR</div> <div><ul style="list-style-type: none">Automatic trash collectorsWaste segregatorsTrash crushers</div>	<div>10. YOUR SOLUTION</div> <div>SL</div> <div><ul style="list-style-type: none">The proposed system constructed to the top of the each bins to detect bin level status and alert the admin through a cloud service-based applicationThe application provides a monitoring platform for the waste management institution to handle the alert records by creating orders for the garbage collectors/drivers which can be accessed via a mobile application system</div>	<div>8. CHANNELS of BEHAVIOUR</div> <div>CH</div> <div><ul style="list-style-type: none">Cloud based mobile application which can access through internet from anywhereIOT based smart mechanised bin which is a wireless communication system works</div>
<div>4. EMOTIONS: BEFORE / AFTER</div> <div>EM</div> <div><ul style="list-style-type: none">Reduce traffic and time efficientEnvironmental and user- friendlyReduce man power deployment in one timeHaste work pressure will be rectified</div>		