

Project Design Phase-I - Solution Fit Template

Project Title: SMART WASTE MANAGEMNET SYSTEM FOR METROPOLITAN CITIES

Team ID: PNT2022TMID21140

Define CS, fit into CC	CUSTOMER SEGMENT(S) The customers of smart waste management system are Municipal officers , Common people , Families and Cooperation. A smart waste management system allows sanitation workers and employees to obtain real-time data, which helps prevent the bins from overflowing, contributing to healthier and smarter cities.	CUSTOMER CONSTRAINTS <ul style="list-style-type: none">Lack of waste collecting pointsInadequate waste collecting vehiclesLimited access to waste binsIrregularity of waste collectionLarge amount of waste and space limitations	AVAILABLE SOLUTIONS <ul style="list-style-type: none">Reduce, Reuse and Recycling method .Segregation of watesFocus on waste prevention.	Explore AS, differentiate
	JOBS-TO-BE-DONE /PROBLEMS Proper employee placement Employee retention Excessive downtime Overcoming poor quality recyclables	PROBLEM ROOT CAUSE Improper waste management Rising population Urbanization and through industrial waste Hospitals and drug companies Construction that includes dust, cement , rocks etc.	BEHAVIOUR The customer will be notified if the bin gets filled and it can be emptied before the waste gets littered on the ground. Notification will be given to the customer whenever the trash bin is about to fill.	
Focus on J&P , tap into BE, understand RC				Focus on J&P , tap into BE, understand RC

Identify

<div><div>TRIGGERS</div><div><ul style="list-style-type: none">Worry about littering of garbages.Animals may eat plastic wasteFear about spreading of diseasesEnvironmental Pollution.</div><div>TR</div></div> <div><div>EMOTIONS: BEFORE / AFTER</div><div><div>BEFORE:</div><div><div>Worry about environmental pollution</div><div>Fear of high life risk to cattle.</div><div>Fear of spreading of diseases</div></div><div>AFTER:</div><div><div>Hygiene environment</div><div>Less pollution</div></div></div><div>EM</div></div>	<div><div>YOUR SOLUTION</div><div><div>Our solution is to implement ultra sonic sensor which senses upto some distance can be used.</div><div>Using IOT technology, the garbage level monitoring and notification are done.</div><div>If the level of the trash bin goes beyond a certain threshold level then the sensor devices notifies.</div><div>This activity is monitored by the municipality cooperation and the trash bin is made to be cleared.</div></div><div>SL</div></div>	<div><div>CHANNELS of BEHAVIOUR</div><div>CH</div><div><div>ONLINE:</div><div>The authorities keep a track of the trash bin with the help of the ultra sonic sensors, Arduino board and the lcd display.</div><div>OFFLINE:</div><div>The workers reach the location immediately and empty the trash bin before it gets littered on the ground.</div></div></div>
---	--	---