

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)**CS**

- For residential, industrial, commercial and municipal clients

5. CUSTOMER CONSTRAINTS**CC**

- Unnoticed filled garbage bins leads to Clumsiness
- Location of the filled bins unknown
- Fuel wastages due to roaming

8. AVAILABLE SOLUTIONS**AS**

- Automating waste collection in streets.
- Monitoring street bins at park , campus , city center or city center.
- Waste monitoring of semi-underground and underground bins.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS**J&P**

- To detect the level of the bin.
- Accumulate information of the bin and sent the status of the in to the server and sent data to pickup truck.

6. PROBLEM ROOT CAUSE**RC**

- The main problem faced by the metropolitan cities are detecting the garbage level weather it filled or not and also we need to measure the weight of the garbage bin. Then alerts the authorized person to empty the bin whenever the bins are full3

9. BEHAVIOUR**BE**

- The strategy is implemented by relying solely on publicity and civic awareness, the impact is less significant.
- The unknown waste dumping behavior of residents is a great challenge for decision makers to allocate resources for waste collection operations.

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

3. TRIGGERS**TR**

- Efficient waste management is an essential requisite for a clean and safe Environment and keep cities away from the harm caused by the mismanagement of solid waste produced in urban centers.

7. YOUR SOLUTION**SL**

- Use a reusable bottle/cup for beverages
- Use reusable grocery bags
- Purchase wisely and recycle
- Avoid single use food and drink containers And Utensil.

10. CHANNELS OF BEHAVIOUR**CH**

- The smart waste bin development process was people - centered and paid particular attention to human experiences, allowing for various interaction modalities.

4. EMOTIONS: BEFORE / AFTER**EM****Before:**

- To imbalance between the production and the capability to manage it .The dumps are a source of complex pollution which threatens the public health.

After:

A reduction in the number of waste bins needs. Analytics data to manage collection routes and the placement of bins more effectively improved environment(i.e. no overflowing bins and less unpleasant

