Define CS, fit into CC

1. CUSTOMER SEGMENT(S) `CS`

The main customer goverment

6. CUSTOMER CONSTRAINTS `CC`

Smart Waste Collection Report by Navigation Research Urban waste collection is expenditure on government budgets. The statistics state that today, urban populations produce around 4.6 Kilograms of solid waste per capita. To collect and manage this waste, the authorities require **$300 per capita annually**.

5. AVAILABLE SOLUTIONS `AS`

This proposed system, integrates different sensing and communication technologies to monitor real time bin information. This system is good enough to carry out practically as it helps to collect the garbage from the garbage bins on time before the garbage overflows from that bin which can possess threat to the health of the people

Explore AS, differentiate

Focus on J&P, tap into RC

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

Majority of the public environment seems to be polluted with the waste material. Safeguarding the environment using technology sources is needed at present

9. PROBLEM ROOT CAUSE `RC`

Excessive number of vehicles,
Excessive workforce (minimum 3 staff),
Spread of bad odor due to placing the containers in the open area,
The scattering of the wastewater around the container,
Scratching and spreading the garbage by stray animals and waste collectors,

7. BEHAVIOUR `BE`

In the field of IoT, the objects communicate and exchange information to provide advanced intelligent services for users. This project deals with the **problem** of **waste management** in **smart** cities, where the garbage collection **system** is not optimized. This project enables the organizations to meet their needs of **smart** garbage **management systems**

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

Identify strong TR & EM

3. TRIGGERS

In case of throwing waste into the container more than its capacity, the safety cover in the lower part may be damaged due to the applied vertical force. So, malfunctions due to the mentioned reason will not covered by the warranty

4. EMOTIONS: BEFORE / AFTER

main problem we people face is how we can tackle garbage which is spreading on the roads which affects our environment and also harms the people's health so to overcome these problems we have implemented the **smart garbage collector system**

10. YOUR SOLUTION

SL

Waste management organizations depend on outdated and ineffective technologies rather than creating a waste management system that includes innovative technologies. The lack of proper waste management systems is another problem that waste management organizations might face when creating waste management systems for junkyards. This problem increases leachate in the form of a liquid when waste is broken down in landfills

8.CHANNELS of BEHAVIOUR

ONLINE

Stable network connectivity

OFFLINE

In case of throwing waste into the container more than its capacity, the safety cover in the lower part may be damaged due to the applied vertical force. So, malfunctions due to the mentioned reason will not covered by the warranty