PROJECT DESIGN PHASE-I - SOLUTION FIT

Project Title : Smart Waste Management System For Metropolitan Cities

Team ID : PNT2022TMID16239

<table>
<tr>
<td rowspan="2">Define CS, fit into CC</td>
<td>

1. CUSTOMER SEGMENT(S) :

Municipality and Local authorities of Metropolitan cities of India are the customers.

</td>
<td>

6. CUSTOMER CONSTRAINTS

1. Lack of infrastructure
2. Cost
3. Limitation of technology
4. Lack of participation in waste segregation

</td>
<td>

5. AVAILABLE SOLUTIONS

1. Waste monitoring of selected bin.
2. Central point for managing daily operations.
3. Solar power

</td>
<td rowspan="2">Explore AS, differentiate</td>
</tr>
</table>

<table>
<tr>
<td>Focus on J&P, tap into BE, understand RC</td>
<td>

2. JOBS-TO-BE-DONE / PROBLEMS

1. Avoid fixed routine for waste collection
2. Avoid overflowing of bins
3. Proper Segregation of wastes

</td>
<td>

9. PROBLEM ROOT CAUSE

1. Increased population growth and urbanization leads to escalation of wastes
2. Lack of waste disposal due to this the garbage end up in the roads and surroundings

</td>
<td>

7. BEHAVIOUR

1. Sensors are used to sense the amount of waste in the trash
2. People have to wait until the next day for the garbage to be cleared by the truck drivers

</td>
<td>Focus on J&P, tap into BE, understand RC</td>
</tr>
</table>

3. TRIGGERS

To make the environment disaster free and clean and to save the people for some toxic wastes.

4. EMOTIONS: BEFORE / AFTER

Before :
   People get irritated on seeing the wastes that end up on the roads
After :
   After the cleaning of trash people feel pleasant and secure

10. YOUR

1. Regular monitoring of waste disposals
2. Creating an app for monitoring the location, weight and level of garbage cans
3. Solar power usage

SOLUTION

8. CHANNELS OF BEHAVIOUR

Online :
   1. We can monitor in live
   2. People can give complaints and feedback about the work
Offline :
   Taking necessary action on collecting the garbage regularly.