**Project Design Phase-I**

**Problem Solution Fit**

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

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

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| --- | --- |
| Team ID | PNT2022TMID32785 |
| Project Name | Smart Waste Management System For Metropolitan Cities |

**Problem Solution Fit template: Smart Waste Management System For Metropolitan Cities**

**AS**

**5. AVAILABLE SOLUTIONS**

* Can create a software for monitoring wastages
* Household wastes are incinerated in the backyard or nearby.
* Environmental racism
* People may feel disgusted to clean the garbage by themselves
* When the garbage or wastes spills out of the bins
* Bad odor resulting from the waste.

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

The customer here is the people who lives around the public garbage bins and domestic animals and the person who collects the waste particularly the person with health issues.

**Explore AS, differentiate**

**Define CS, fit into CC**

**BE**

**7. BEHAVIOUR**

* Monitoring of waste level by using some technologies and software to dispose it in the correct time.

**RC**

**9. PROBLEM ROOT CAUSE**

* No proper monitorization of the fill level of garbage in the bins kept for public disposal of waste.
* People’s lethargicness and irresponsibility.

**J&P**

**2. JOBS-TO-BE-DONE / PROBLEMS**

* Notifying the garbage collector about the overflow of trash containers to empty the garbage container frequently.
* Making the environment clean and eco-friendly.
* Preventing people from respiratory diseases.

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

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| --- | --- | --- | --- | --- |
| **Identify strong TR & EM** | **3. TRIGGERS TR**   * Since wastes are collected and disposed properly at a right time, people will be aware of the act and triggered to put the waste only in the trash container. | **10. YOUR SOLUTION SL**     * Proper monitoring of garbage level using sensors to avoid overflow of wastes * Frequent collection of wastes by the waste collectors by the proper channel of communication. | **8.CHANNELS of BEHAVIOUR CH**  Online:   * Advertise or spread news over social media on keeping the environment clean**.**   Offline:   * People who actually cares about the sanitization of environment conduct awareness campaign as volunteers, rally. * Conduction of awareness programs. * Inclusion of this issue in the schools books to create awareness and making the upcoming young generation with responsibilities and concern towards the society and its wealth. | **Identify strong TR & EM** |
| **4. EMOTIONS: BEFORE / AFTER EM**   * **BEFORE** : Frustration, fear of health issues like shin diseases and respiratory infections. * **AFTER** : Satisfaction, Calm state of mind,cleanliness, Eco-friendly |