**PROJECT PHASE - I**

**PROBLEM SOLUTION FIT**

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

**PROJECT:** SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES **TEAM ID:** PNT2022TMID07372

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

**AS**

**5. AVAILABLE SOLUTIONS**

.

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

**Explore AS, differentiate**

**Define CS, fit into CC**

* Municipal Corporation
* Health sector (public)
* Garbage collector
* No system that can update the bin status
* Alert the User on time
* Garbage crushers and Biodegradable/Non-biodegradable waste collectors
* Man powered system
* Location tracking system in garbage bins

**BE**

**7. BEHAVIOUR**

**RC**

**9. PROBLEM ROOT CAUSE**

.

**J&P**

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

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

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

* Clean and healthy environment
* Smartening the waste management system
* Can monitor the bin wherever we are
* Increasing in population increases the wastes
* Busy working peoples
* Collection of trashes on time is an essential part of the problem
* Collecting wastes during morning and evening leads to more traffic in metropolitan cities

**Identify strong TR & EM**

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| --- | --- | --- | --- | --- |
| **Identify strong TR & EM** | **3. TRIGGERS TR**   * Automatic trash collectors * Waste segregators * Trash crushers | **10. YOUR SOLUTION SL**   * The proposed system constructed to the top of the each bins to detect bin level status and alert the admin through a cloud service-based application * The application provides a monitoring platform for the waste management institution to handle the alert records by creating orders for the garbage collectors/drivers which can be accessed via a mobile application system | 1. **CHANNELS of BEHAVIOUR CH**  * Cloud based mobile application which can access through internet from anywhere * IOT based smart mechanised bin which is a wireless communication system works |  |
| **4. EMOTIONS: BEFORE / AFTER EM**     * Reduce traffic and time efficient * Environmental and user- friendly * Reduce man power deployment in one time * Haste work pressure will be rectified |