Project Title: Smart Waste Management System For Metropolitan Cities

Project Design Phase-I – Solution Fit

Team ID: PNT2022TMID36338

1. CUSTOMER SEGMENT(S) `CS`

Smart waste management is about using technology and data to create a more efficient waste industries based on IOT smart waste management. It aims to increase sustainability of waste services.

6. CUSTOMER CONSTRAINTS `CC`

Individual bins are not provided. People leave waste in plastic bags beside roads Some households purchased waste bins but then others met these bins too. People do not know where to put their waste because there are no fixed waste collection points or times.

5. AVAILABLE SOLUTIONS `AS`

Waste management is characterized by the usage of technology in order to be more efficient when it comes to managing waste. This makes it possible to plan more efficient routes for the trash collectors who empty the bins. But also lowers the chance of any bin being full for over a long time.

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

Identify the pre-incident WMP that best aligns with the specific incident if applicable. Identify waste management related policy or solve the problems with proper resolutions.

9. PROBLEM ROOT CAUSE `RC`

There are safety challenges facing the waste or recycling industries they include chemical exposure combustible dust explosions. Machine guarding hazards, and exposure to powerful equipment with moving parts.

7. BEHAVIOUR `BE`

A reduction in the number of waste collection needed by up to 80% resulting in less manpower, emissions, fuel use and traffic congestion. A reduction in the number of waste bins needed. Analytics data manage collection rates and the placement of bin more effectively.

3. TRIGGERS `TR`

By installing this project we can trigger people by seeing their neighbor peoples make the utilization of technology more useful and reading about a more efficient solution in the news.

4. EMOTIONS: BEFORE / AFTER `EM`

After the implementation of a smart waste management system our environment will be hygene and clean.

10. YOUR SOLUTION `SL`

You can put that reusable bottle to save money and reduce waste. By taking your own water with you, you'll also reduce your chances of purchasing more expensive beverages on-the-go. This will eliminate the one-time use containers they come in. While most cans and bottles can be recycled, they require a lot of energy to be produced, shipped to the bottling facility and then to they store for purchase.

8. CHANNELS of BEHAVIOR `CH`

ONLINE
People may provide review and rating for the system.
OFFLINE
People may provide a valuable resource and contribution to the organization.