Project Title: Smart Waste Management System for Metropolitan Cities **Project Design Phase-I - Solution Fit** **Team ID:** PNT2022TMID34030

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Cities and municipalities use IoT technology to manage traffic or handle sustainable waste management operations. Intelligent home systems are one of the most popular. Cars can access the internet and create comfort with the the help of IoT-supported systems.

6. CUSTOMER CONSTRAINTS CC

- Lack of Waste Collecting Points.
- Irregularity of Waste Collection.
- Inadequate Waste Collection Vehicles.
- Inadequate Access to Waste Bins.
- Alternatives to Final Waste Disposal
- Improper Waste Separation Facilities

5. AVAILABLE SOLUTIONS AS

- Waste Monitoring.
- Fleet Management.
- Waste Asset Management.
- Collection Efficiency Analysis.
- Smart Waste for Factories.
- Water Level Monitoring.
- Take-back System.
- EPR & PRO Organisation System.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS

create and put the plans in place to provide a reliable and efficient service for the collection, transportation and disposal of waste. Consulting take an integrated approach to waste management and recycling

9. PROBLEM ROOT CAUSE RC

Poor waste management contributes to climate change and air pollution, and directly affects many ecosystems and species. Landfills, considered the last resort in the waste hierarchy, release methane, a very powerful greenhouse gas linked to climate change.

7. BEHAVIOUR BE

Reduction in Collection Cost. The solution reduces waste collection frequency dramatically, enabling you to save on fuel, labor, and fleet maintenance costs

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

3. TRIGGERS TR

Reading about a more efficient solution in the news. Allowing crews to empty bins before they become overflowing with trash or recycling, and before infestation becomes an issue

10. YOUR SOLUTION SL

We can significantly reduce the amount of solid waste by following some basic principles of reducing the amount of waste that is created, reusing materials that would otherwise be

8. CHANNELS of BEHAVIOUR CH

8.1 **online**

The tactic of treating solid wastes and offers reasonably solutions for usage things that don't belong to trash.

Identify strong TR & EM

Identif

	4. EMOTIONS: BEFORE / AFTER EM Before the smart waste technology people were unaware about the environmental pollution and don't care about the health of people .But after they were aware of how to protect the environment and health of people	discarded, by recycling materials and by using recycled materials.	8.2 **offline** • Smart Waste Bins. • Waste Level Sensors. • AI Recycling Robots. • Garbage Truck Weighing Mechanisms. • Pneumatic Waste Pipes. • Solar-Powered Trash Compactors. • E-Waste Kiosks. • Recycling Apps.	