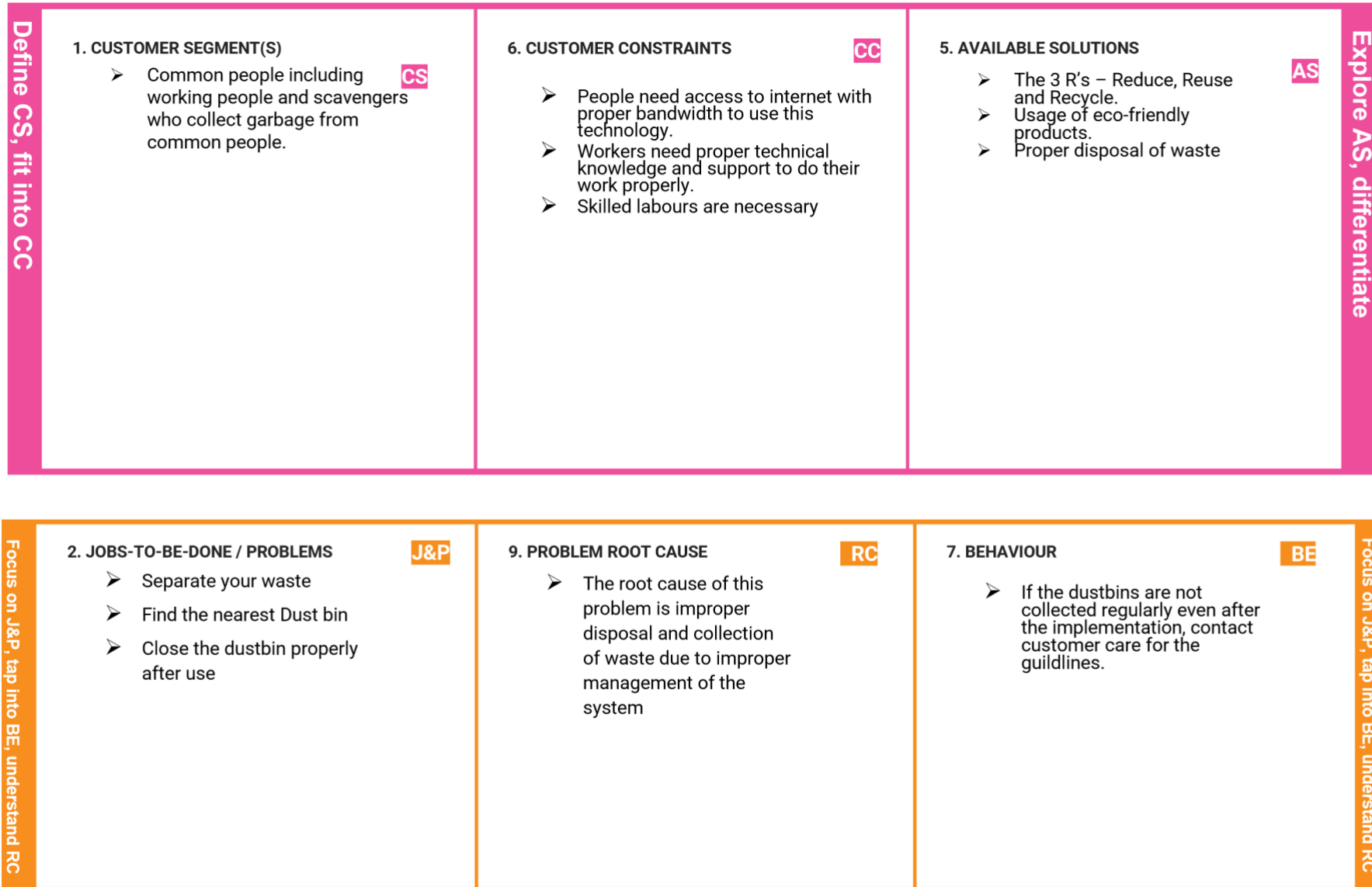**Project Title:** *Smart Waste Management System For Metropolitan Cities*

Project Design Phase-I - *Problem solution fit*

Team ID: PNT2022TMID04740

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

➢ Common people including working people and scavengers who collect garbage from common people.

6. CUSTOMER CONSTRAINTS CC

➢ People need access to internet with proper bandwidth to use this technology.
➢ Workers need proper technical knowledge and support to do their work properly.
➢ Skilled labours are necessary

5. AVAILABLE SOLUTIONS AS

➢ The 3 R's – Reduce, Reuse and Recycle.
➢ Usage of eco-friendly products.
➢ Proper disposal of waste

Explore AS, differentiate

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

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

➢ Separate your waste
➢ Find the nearest Dust bin
➢ Close the dustbin properly after use

9. PROBLEM ROOT CAUSE RC

➢ The root cause of this problem is improper disposal and collection of waste due to improper management of the system

7. BEHAVIOUR BE

➢ If the dustbins are not collected regularly even after the implementation, contact customer care for the guildlines.

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

TRIGGERS `TR`

The triggers that make people use this are:

- The initiative taken by the government
- The responsibility of each citizen
- Knowing how others countries keep their environment clean and green

EMOTIONS: BEFORE / AFTER `EM`

Before: People would have complained about the nasty dustbins and improper maintenance of the system   on

After: Even if it takes a while for the workers and comm people to adopt to this, they will find It very useful

YOUR SOLUTION `SL`

- Our solution is to keep the designed, smart dustbin in each street, where people in that particular area can dispose their waste periodically.
- Once the dustbin is filled, it will be notified to the nearest scavenger to collect them
- These wastes are then sorted out and properly disposed.

8. CHANNELS of BEHAVIOUR

8.1. Online:

- All the status of the dustbins and their disposal period is monitored and synced in online platform.

8.2. Offline:

- Calculation of the status of the dustbin – How much is filled? What is the weight of the dustbin? Etc. are done in offline mode.