Ideation Phase
Brainstorm & Idea Prioritization Template

Team ID	PNT2022TMID21058
Project Name	Smart Waste Management System for Metropolitan Cities

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich number of creative solutions.

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

⏱ 10 minutes

> **TIP**
> You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Indhuja A

Waste cause pollution on land water and air

The amount of wastes increase due to the high pollution

Janani AT

There is no need to check each and every dustbins check only message received dustbins

Proper management of waste is important to reduce pollution

It senses all types of waste materials

Kavinmathi A

People need to separate the waste

More the people more waste

Madhumitha L

It prevents human health and environment from harm

With the help of technology we can guide the truck to choose the dustbin

It send the message directly to the municiple system so the time is saved

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

⏱ 20 minutes

> **TIP**
> Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Apply this technology to the city to optimize the resources,time,money

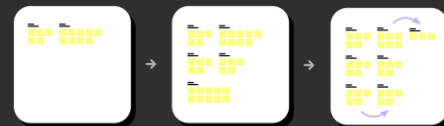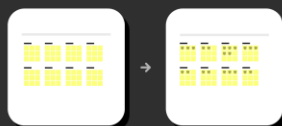It also helps to project of 'SMART CITY' and 'DIGITAL INDIA'

Optimized trash collection route

Collect degradable and non-degradable wastes

IOT alert authorized person when bins going to fill

Step-3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⏱ 20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

It prevents human health and environmen t from harm

Ultrasonic,GPS, Load cell, are configured

It send the messages directly to the municiple system so the time is saved

It reduce the cost of transportation, manpower, energy

It senses all types of waste materials

send the messages directly to the municipal system

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)