



## Smart Waste Management for metropolitan cities: IOT

Team Leader: Abdul Rahman S

Team Members:

Arunpandiyan M

Deepan R

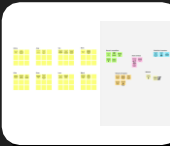
Manojkumar S

10 minutes to prepare

1 hour to collaborate

2-8 people recommended

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### Need some inspiration?

See a finished version of this template to kickstart your work.

Open example



### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

TEAM ID: PNT2022TMID47771



#### Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.



#### Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.



#### Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and

productive session.

Open article



### Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

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### PROBLEM

Today big cities around the world are facing a common problem, managing the city waste effectively without making city unclean. Today's waste management systems involve a large number of employees being appointed to attend a certain number of dumpsters. This leads to a very inefficient and unclean system in which some dumpsters are overflowing. Here a smart waste management system is introduced in which each dumpster is embedded in a monitoring system that will notify if the dumpster is full. This system provides an effective solution to the waste management problem.



#### Key rules of brainstorming

To run a smooth and productive session

Stay in topic.

Defer judgment.

Go for volume.

Encourage wild ideas.

Listen to others.

If possible, be visual.



### 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!

#### Deepan

The sensor values are collected

The collected data is stored and maintained in a cloud platform

#### Arun pandiyan

Amount of garbage collected in bins is monitored using sensor

Analyse the sensor data to indicate the municipality

#### Manoj kumar

Level of garbage is monitored whether it reached threshold or not

Once the threshold limit is reached, GPS location is sent

#### Abdul Rahman

Nearby truck drivers are intimated to collect the garbage

The optimal path to reach the bins location is analyzed



### 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

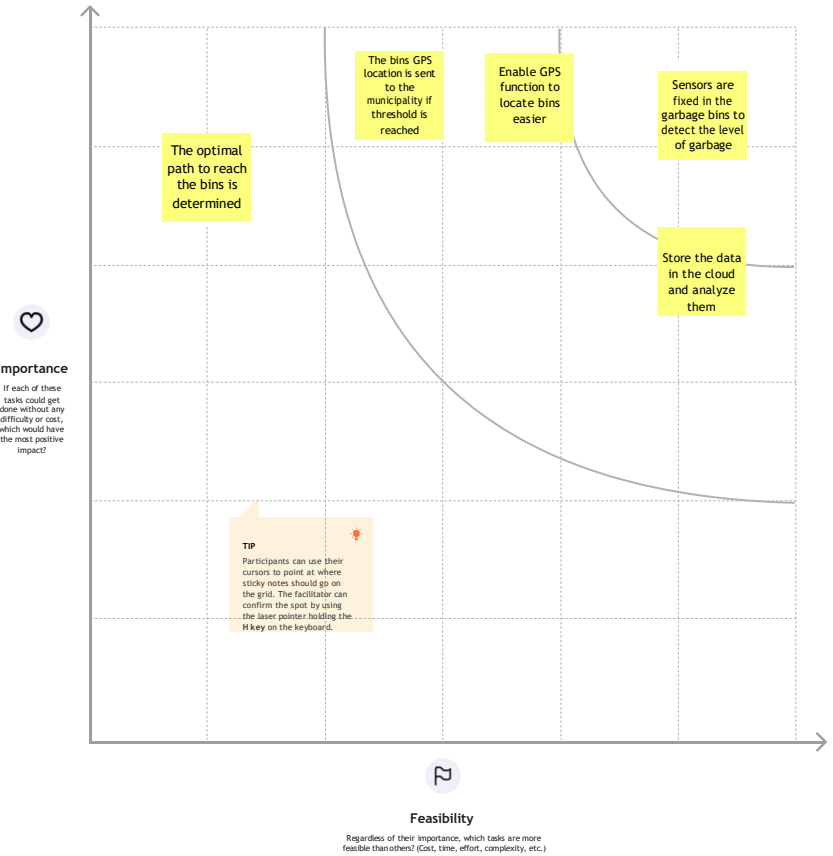
TIP  
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.



### 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



### After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

#### Quick add-ons



#### Share the mural

Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.



#### Export the mural

Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

#### Keep moving forward



#### Strategy blueprint

Define the components of a new idea or strategy.

Open the template



#### Customer experience journey map

Understand customer needs, motivations, and obstacles for an experience.

Open the template



#### Strengths, weaknesses, opportunities & threats

Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

Open the template



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