



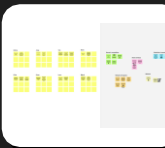
Smart Waste Management for metropolitan cities: IOT

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Team Members:
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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

TEAM ID:PNT2022TMID04297

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.



Encourage wild ideas.



Defer judgment.



Listen to others.



Go for volume.



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

The proposed system would be able to automate the solid waste monitoring process and management of the overall collection process using IOT (Internet of Things).

The data is stored into cloud and analyzed

Data analytics can help assess trends to better plan

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

An Ultrasonic sensor always senses the garbage level and checks whether the threshold value is reached or not

Enable GPS function to locate bins easier

The optimal path to reach the bins is determined

Reduction of pollution

Less labour intensive

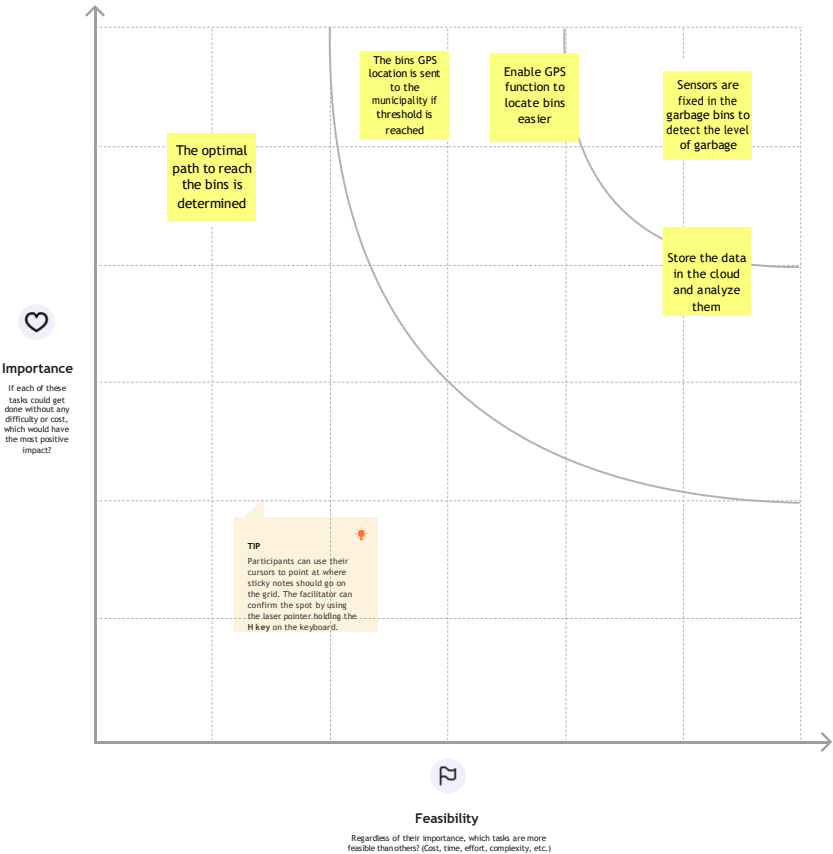
Clean Environment



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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