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| Date | 30 April 2023 |
| Team ID | NM2023TMID01588 |
| Project Name | Smart City Waste Management Systems with Connected Trashcans |
| Maximum Marks | 4 Marks |

Brainstorm

& idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

**10 minutes** to prepare

**1 hour** to collaborate

**2-8 people** recommended

### 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**

1. **Team gathering**

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

1. **Set the goal**

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

1. **Learn how to use the facilitation tools**

Use the Facilitation Superpowers to run a happy and productive session.

[**Open article**](https://support.mural.co/en/articles/2113740-facilitation-superpowers)

**1**

### 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**

**PROBLEM**

**How might we [your problem statement]?**

#### Key rules of brainstorming

To run an smooth and productive session

**2**

### Brainstorm

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

**10 minutes**

**Team lead-Vijayalakshmi B**

Taking such steps would results in clean environment

The fill level of solid waste in each of the containers ,is detected using ultrasonic sensors

Using sensored- id trash cans help to avoid productivity of insects and organisms

## Team member 1- Mahalakshmi P

If the garbage

No missed pickups of filled trash bins

Sensors on the trash bin which detects environmental changes

is full then an

alert message

is sent from

the dumpster

## Team member2-Narmatha V

##### Management

**TIP**

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

**TIP**

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

**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.

reduces the

##### mortality ate

of humans

and animals

Using actuators will locking the bin lid

**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**

**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**

### 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

1. **Share the mural**

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

1. **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**](https://app.mural.co/template/e95f612a-f72a-4772-bc48-545aaa04e0c9/984865a6-0a96-4472-a48d-47639307b3ca)

**Customer experience journey map**

Stay in topic. Defer judgment.

Encourage wild ideas. Listen to others.

This can reduce

Real time monitoring of waste collection vehicles can help optimize routes and reduce the time and fuel required for waste collection

the amount of

The sensors in

the smart bins

Smart trash bin it detects location

,filling level

#### Importance

If each of these

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

[**Open the template**](https://app.mural.co/template/b7114010-3a67-4d63-a51d-6f2cedc9633f/c1b465ab-57af-4624-8faf-ebb312edc0eb)

Go for volume. If possible, be visual.

waste that goes

to landfills and

help create a circular economy

detected the

condition of the

bin whether it starts to overflow

tasks could get

done without any difficulty or cost, which would have the most positive impact?

**Strengths, weaknesses, opportunities & threats**

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

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[**Open the template**](https://app.mural.co/template/6a062671-89ee-4b76-9409-2603d8b098be/ca270343-1d54-4952-9d8c-fbc303ffd0f2)

## Team member3-Abitha M

[**Share template feedback**](https://muralco.typeform.com/to/CiqaHVat?typeform-source=app.mural.co)

# 

Find the number of bins needed to avoid overflowing waste

LED connected smart bins blink whenever the bins to overflow

The buzzer in it alarms the concerned user if two category waste get mixed

Servo moor connected smart bins helps to open the lid of the dustbin

[**Share template feedback**](https://muralco.typeform.com/to/CiqaHVat?typeform-source=app.mural.co)

#### Feasibility

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



**Template**

**Need some inspiration?**

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

[**Open example**](https://app.mural.co/template/e5a93b7b-49f2-48c9-afd7-a635d860eba6/93f1b98d-b2d2-4695-8e85-7e9c0d2fd9b9)