


- 🕒 10 minutes to prepare
- 🕒 1 hour to collaborate
- 👤 2-8 people recommended

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 This is a text box...

-  **Learn how to use the facilitation tools**  
Use the Facilitation Superpowers to run a happy and productive session.






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## 1

With increasing population, urbanization, and changing lifestyle waste generation levels are increasing tremendously, hence waste management is a challenge for both developed and developing nations. The problem here is that the garbage collectors are not aware when the garbage bins are full. We have proposed a solution for this problem by using Internet of Things and cloud based smart waste management system.

Smart waste management in metropolitan cities

To run an smooth and productive session

- |                                                                                     |                 |                                                                                     |                         |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------|
|  | Stay in topic.  |  | Encourage wild ideas.   |
|  | Defer judgment. |  | Listen to others.       |
|  | Go for volume.  |  | If possible, be visual. |

2

🕒 10 minutes

**TIP**

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

Analyse the data to indicate the municipality	The functions in this can be automated to avoid errors which are occurred manually
-----------------------------------------------	------------------------------------------------------------------------------------

Once the threshold value is reached the GPS location is to sent	The level of the bins can be constantly monitored
-----------------------------------------------------------------	---------------------------------------------------

The shortest path can be found to reduce the fuel cost and avoid any delay	Constantly indicate the level of garbage filled in the dustbin
----------------------------------------------------------------------------	----------------------------------------------------------------

The optimal path to reach the bins is analyzed	An IR sensor always senses the objects when dumped
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Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

An IR sensor  
always senses  
the objects  
when dumped

The optimal path to reach the bins is analyzed

Increased efficiency over time

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

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

**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.

The bins GPS location is sent to the municipality if threshold is reached.

Ultrasonic  
and IR  
sensors  
placed at top  
of the bin

### Feasibility

## 4

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

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

[Open example](#) →

