

## 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: PNT2022TMID54378**

Team gathering

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

B Set the g

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

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Open article



### Brainstorm

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

(†) 10 minutes

# ljaz

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).

Placing Ultrasonic sensor to detect level

of bins

## Raja

Enable GPS function to locate bins easier

Waste generation analysis to understand cities usages

## Praveen

Kiruba

Load cell on bottom of bins

Place Arduion board at left side of bins Visual fill status indicators on top of bins using by GSM in bins achieve wireless communication with bins and managing center

when bins fill alert message to the authorized person solar panels for power supply for IOT devices



#### 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.

(i) 20 minutes



Transparency and sustainable solution than normal garbage bins

Optimized trash collection route

Collect only degradable and non-degradable wastes

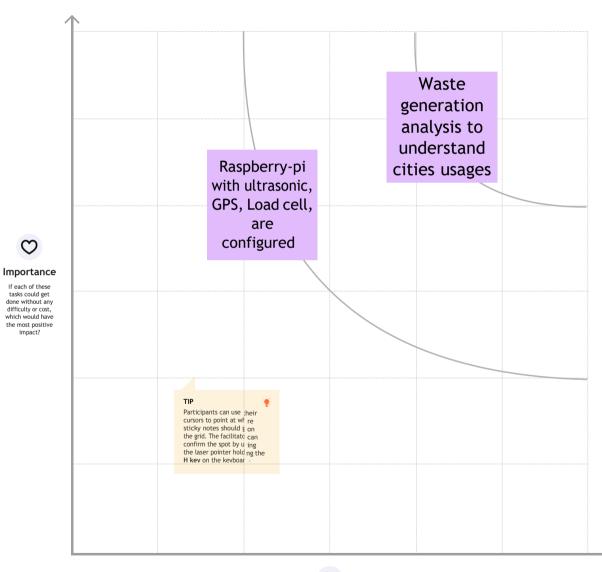
IOT alert authorized person when bins going to fill



### **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.

① 20 minutes





Feasibility

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