

Ideation Phase

Brainstorm & Idea Prioritization Template

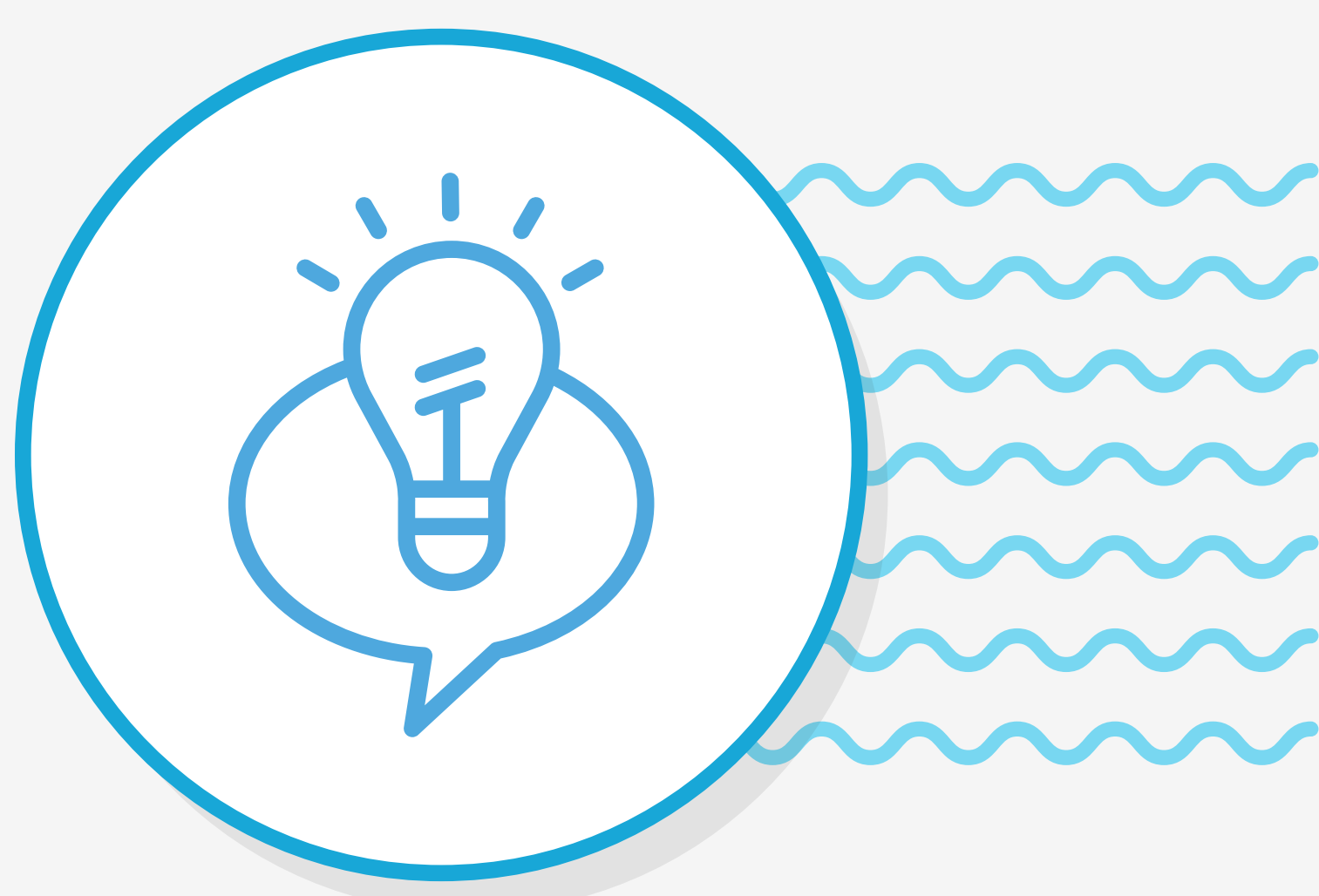
Date	19 September 2022
Team ID	PNT2022TMID29662
Project Name	Gas Leakage Monitoring & Alerting system for Industries
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.




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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

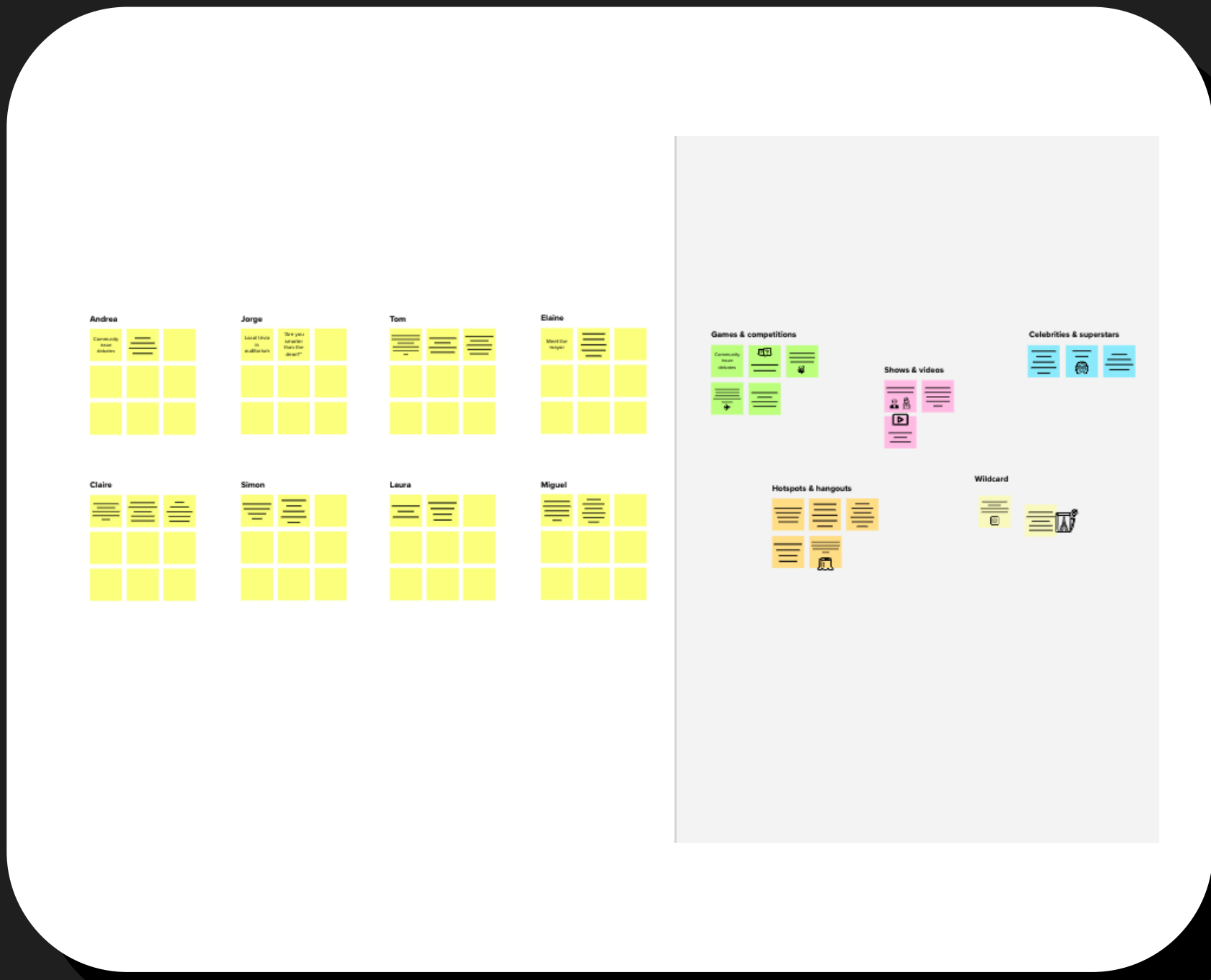


Brainstorm & idea prioritization

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

Need some

[Open example](#) →

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 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](#) 

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

Gas Leakage Monitoring
and Alerting System



Key rules of brainstorming

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.

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!

HASAN SATHULI H

Monitor the amount of gases in our environment.	Response times are in the order 1 second.	Can easily be conformed to be 'Intrinsically Safe'	An average measurement is taken over the total path so that a narrow plume of gas has less chance of escaping detection.
Because of the internal reference cell, the system is self calibrating.	Only one gas can be measured with each instrument.	Low maintenance and low operating costs.	Reliable technology.
An average plume of gas has less chance of escaping detection.	Highest accuracy and repeatability	extended battery life and long life maintenance	Low sensor drift,

GOKULNATH K

Prevent fre hazards and explosions	Supervise gas concentration levels	Costeffective installation	Get real-time alerts about the gaseous presence in the atmosphere
Measure oxygen level accuracy	Easy to maintain. Servicing and calibration options.	Inbuilt data and event logging capabilities reduce burden on plant controllers.	Get immediate gas leak alerts
Ensure worker's health	Easy of use with one-button operation and preset alarm levels.	Real-time updates about leakages	Data analytics for improved decisions

JEEVARISHIBABU K M

Preventing potentially explosive atmospheres	Avoiding effective ignition sources	Less sensitive to calibration errors.	Simple, measures fammability of gases Low cost proven technology
Uses a physical rather than chemical technique.	Measures toxic gases in relatively low concentrations.	Mechanically robust, works well in constant high humidity conditions.	Highly sensitive and selective for toxic gases. Leaves physical evidence of the gas exposure. No false alarms
Supervise gas concentration levels	Because of the internal reference cell, the system is self calibrating.	Wide range of gases can be detected. Very low power	It is possible to get high accuracy

KAVIYARASAN M

Fast and reliable detection from the risks of toxic and fammable gases	it is used in houses as LPG leakage detection	It also detects alcohol so it is used as liquor tester	The sensor has excellent sensitivity combined with a quick fast response time
The system is highly reliable, tamper proof and secure	It is possible to get instantaneous results	Robust designs to withstand harsh and rugged environments, with dust filters and high resistance to Radio frequency Interference (RFI).	It is possible to get high accurac
Compact, lightweight monitors for clip-on or belt with audible, visual and vibrating alarms.	Extremely precise repeatability	Extremely FAST RESPONSE time on changing parameters	It is possible to get instantaneous results and with high accuracy



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 can break it up into smaller sub-groups.

🕒 20 minutes

Initialize the
Gas sensors
in industries

The leakage
of gas should
be sensed ontime

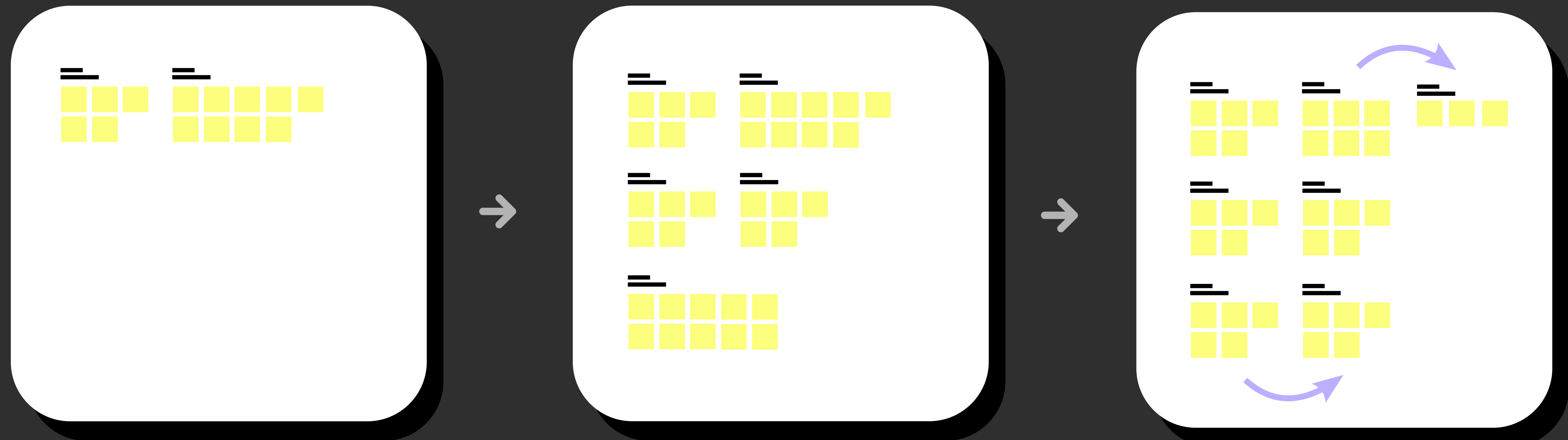
Connect the
Gas leakage
system with
IoT

The IoT components
should accommodate
the step by step
process without any
kind of delay

TIP



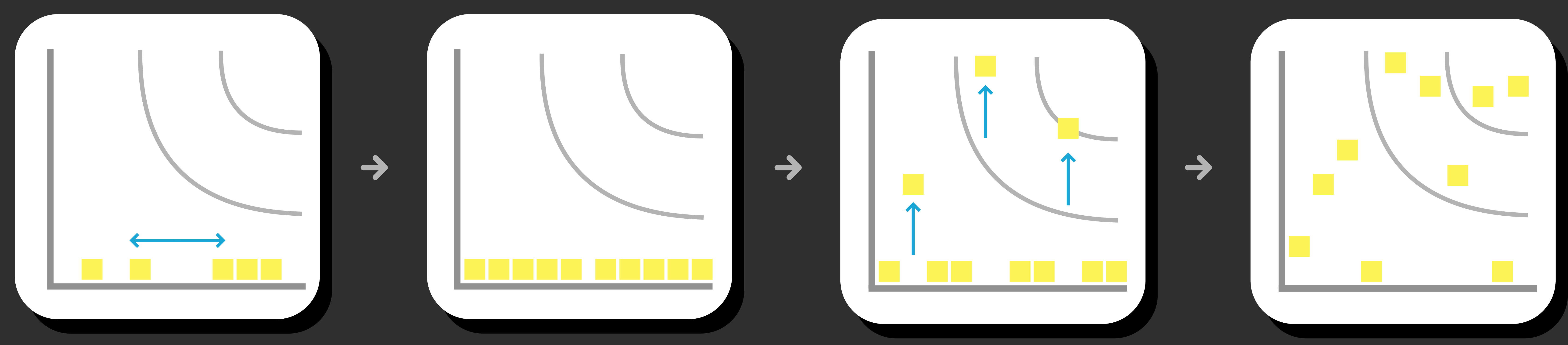
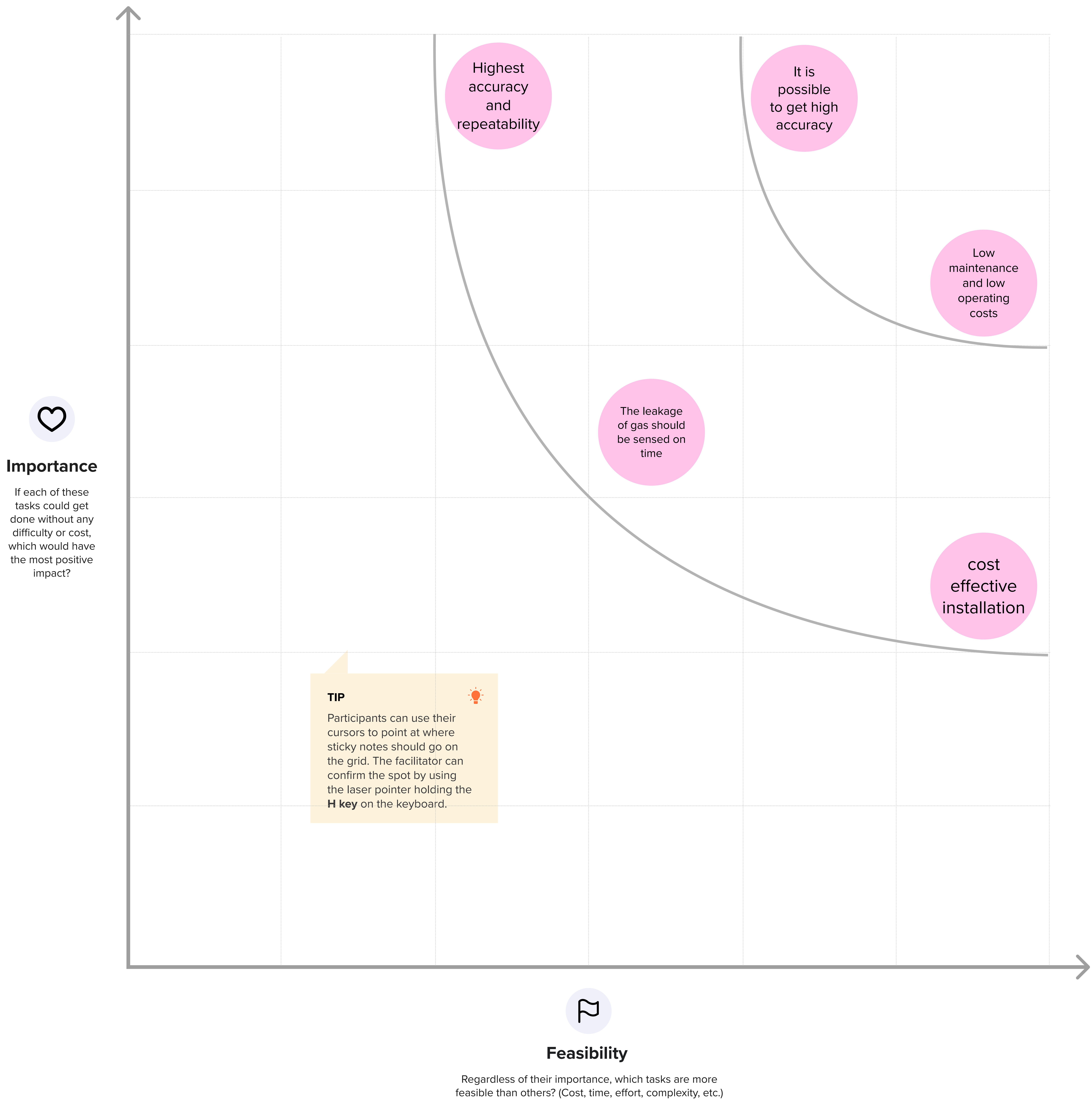
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.



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

- A

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

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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