Ideation Phase Brainstorm & Idea Prioritization Template

Date	1 June 2025
Team ID	LTVIP2025TMID32454
Project Name	Clean Tech:Transforming Waste Management
	with Transfer learning
Maximum Marks	4 Marks

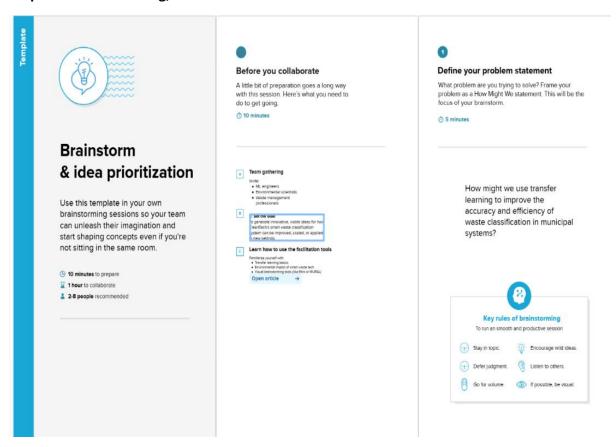
Brainstorm & Idea Prioritization Template:

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/brainstorm-and-idea-prioritization

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping





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.





1: Smart Sorting Technology

Focused on improvements to automated waste sorting systems using deep learning.

- Use transfer learning with multi-modal sensors (IR + RGB).
- Fine-tune the model with locally sourced waste images.
- Apply real-time object detection on conveyor belts.
- Implement continuous learning from incorrect classifications.

Cluster 2: Public Engagement & Behavior Change

Making the system interactive, educational, and userfriendly to encourage proper disposal.

- Add gamification to smart bins (e.g., points for correct sorting).
- Display classification results on a small bin screen.
- Use a mobile app to give recycling tips based on what's thrown.
- Send notifications if waste is repeatedly misclassified.

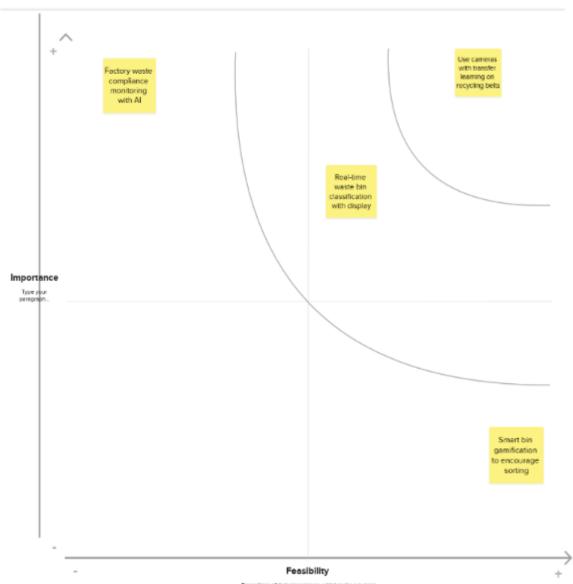
Step-3: Idea Prioritization



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.



Participants can use their cursors to point at where stoky noots should go on the grid. The facilitation can confirm the spot by using the leser pointer holding the H key on the keyboord.



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