

Ideation Phase - Brainstorm & Idea Prioritization Template


Date	27 September 2022
Team ID	PNT2022TMID53336
Project Name	Emerging Methods For Early Detection Of Forest Fires
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming creates a better climate for cooperation and teamwork. You encourage better friendships and communication when people engage in brainstorming activities together. Brainstorming provides an 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.

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




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

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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

A

Team gathering

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

B

Set the goal

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

C

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

Forest and urban fires have been and still are serious problems for many countries, which consistently end or even potentially be started by fire alarm.



Key rules of brainstorming

To run a smooth and productive session

1

Stay on topic.

2

Defer judgment.

3

Go for volume.

4

Encourage wild ideas.

5

Listen to others.

6

If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

1
Brainstorm
Write down any ideas that come to mind that address your problem statement.
⌚ 10 minutes

Aravindh Krishna

- Forest fires are a major environmental issue
- Camera or Video Based approach
- Forest fire image recognition method based on convolutional neural networks
- sensors need to be carefully placed to ensure adequate visibility
- IR imaging sensors can provide a measure of the thermal radiation emitted
- Fire alarm system

Harish Raja

- It gives insights on relationship between predictors and response
- Potential damage is reduced
- Nature along with its wildlife is protected from further damages
- It can be done in low cost
- To reduce the effect of disaster
- knowing humidity and temperature of the forest region

Janardhanan

- It will be efficient cost
- Accuracy 99.9%
- Applying the machine learning techniques to fire detection system
- This would save millions of different species that resides in the forests
- Enables user to detect signs of fire before it is too late
- Protects the flora and fauna
- Permanent monitoring and data collection
- It saves for our future environment
- Detection time is fast
- Requires large amount of data
- Neural Network methods is used here to detect
- It is based on the video or sensor approach

Avinash

2
Group Ideas
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

The group ideas after discussion also considered

Importance
If any of these notes stand out from within our affinity map, which one do you think we should explore?

- sensors need to be carefully placed to ensure adequate visibility
- It is based on the video or sensor approach
- Forest fire are a major environmental issue
- It saves for our future environment
- It can be done in low cost
- It will be efficient cost
- Permanent monitoring and data collection
- Requires large amount of data
- Nature along with its wildlife is protected from further damages
- Protects the flora and fauna
- Neural Network methods is used here to detect
- Detection time is fast

Step-3: Idea Prioritization

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 issues are important and which are feasible.

20 minutes

Importance \ Feasibility	High Importance / Low Feasibility	High Importance / High Feasibility	Low Importance / Low Feasibility	Low Importance / High Feasibility
Detect by smoke	Detects bank due to lightning	Detects by climate changes	Detects intentional acts of arson	Detects the forest fire using CO ₂
Detects by temperature regularly	Detects any electrical shortage that can cause fire	Detects by flame	Install and maintain the smoke alarms	Checks the humidity level
Monitor CCTV and HD cameras around site	Regularly removes dry leaves	By satellite monitoring	TP Portals could have those sensors to point at where electric wires should go in the grid. The facilities can monitor the gate keeping the lower station building the way on the highways	

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 outcome 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

- Sleep blueprint**
Define the components of a new idea or strategy.
[Open the template](#)
- Customer experience journey map**
Understand customer needs, pain points, and obstacles for an entrepreneur.
[Open the template](#)
- Strengths, weaknesses, opportunities & threats (SWOT)**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template](#)

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