

# Ideation Phase


## Brainstorm & Idea Prioritization

Date	15 october 2022
Team ID	PNT2022TMID30674
Project Name	Emerging Methods for Early Detection of Forest Fires
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.

### 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

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**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.

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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

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PROBLEM

How might we detect and analyze the intensity of forest fires?

**Key rules of brainstorming**

To run a smooth and productive session

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

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

10 minutes

Potential damage is reduced

Time consumption

early warning to user

accuracy 99.9%

It can be done in low cost

Protection is by video images

saves our environment

Internet should be connected

deep learning can be used

Forest fires are a major environmental issue

Every time it should be maintained

The images of trees and fire should be distinguished

cost effective analysis

small changes should be detected

output should be accurate

to reduce the effect of forest fire

protects flora and fauna

requires large amount of data

Images should be monitored by humans

Confidence monitoring needed

early warning to local fire authority

Large areas should be covered

cameras should be movement

satellites can be used

utilizing CNN

make prevention

forest fires are unpredictable

Images promising to used

Alarms should be maintained

Quick notification

prediction using machine learning

detection using AI

neural network can be used

saves millions of lives

early warning to reduce damage

technical glitches may occur

3

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

monitoring forest fire using satellites

requires large amount of data

video based approaches

neural network is used here

cost efficient

time consumption

prevent from large damage

alarm should be maintained

protects flora and fauna

TIP

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

## Step-3: Idea Prioritization

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### 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

