

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID08041
Project Name	Emerging Methods for Early Detection of Forest Fires

Brainstorm & Idea Prioritization Design.

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

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

How might we detect the forest fire at the most earliest possible time to reduce its impact in our environment in all possible ways.



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.

Step-2: Brainstorm, Idea Listing and Grouping.

2

Brainstorm

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

🕒 10 minutes

SWATHI SHREE

Fire detection tools and techniques must be developed and maintained by the forest department.

The government should impose strict rules and regulations to the visitors for those people who are using forest for adventure activities.

Frequent patrolling by the forest officials should be followed to monitor the forest surroundings.

Educating the farmers not to use slash-and-burn practices as they will result in the primary cause of fire.

Forest officers and other people of the department must be given with the proper training and practices to encounter a forest fire.

SHIKSHA

Making visitors entry to the forest only after thorough checking, combustible materials must not be permitted.

We must try to sow the fire resistant plant seeds so that this will eliminate spreading of the fire.

All the other fire stations which are near by the forest must also get notified in case of a forest fire.

A large amount of CO2 will be released in case of a fire this can be detected using sensors, satellite videos/ images by using optical detectors.

Forest officers must frequently measure the temperature of the forest surroundings by using sensors.

SHESHANK

Alerting the traffic department to block the roads that connects to the forest areas.

Avoiding electric cables inside the forest, that causes electric spark which leads to fire.

Alerting the forest department to watch the forest carefully during Thunderstorms.

Tribal peoples are provided with the contact details of forest department, so that they can report on time.

Using satellite image processing methods to detect forest fire.

SURYA

Educating people and creating awareness about the forest fires.

Banning inflammable substances such as petrol and oils into the forest.

Maintaining and structuring the tree to avoid rubbing of branches.

Maintaining the record from the causes to solutions and steps taken during the forest fire for the future reference.

Researching and looking into the other causes of forest fires.

3

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

AWARENESS

Making visitors entry to the forest only after thorough checking, combustible materials must not be permitted.

Educating people and creating awareness about the forest fires.

COMMUNICATION

All the other fire stations which are near by the forest must also get notified in case of a forest fire.

Tribal peoples are provided with the contact details of forest department, so that they can report on time.

Alerting the traffic department to block the roads that connects to the forest areas.

ENVIRONMENTAL EFFECTS

We must try to sow the fire resistant plant seeds so that this will eliminate spreading of the fire.

Educating the farmers not to use slash-and-burn practices as they will result in the primary cause of fire.

TECHONLOGY

Fire detection tools and techniques must be developed and maintained by the forest department.

Using satellite image processing methods to detect forest fire.

A large amount of CO2 will be released in case of a fire, this can be detected using sensors, satellite videos/ images by using optical detectors.

Step-3: Idea Prioritization

4

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

