

## Ideation Phase


### Brainstorm&Idea Prioritization Template

Date	20 September 2022
Team ID	PNT2022TMID35932
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	4 Marks

#### Brainstorm & Idea Prioritization:




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

Template




## Brainstorm & Idea Prioritization

For Hazardous area monitoring for  
Industrial Plants powered by IOT.

 10 minutes to prepare  
 1 hour to collaborate  
 2-8 people recommended


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 Share template feedback

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**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

What are the necessary features needed to be included for Hazardous area monitoring?

PROBLEM

How are we going to implement these features with minimal costs?

## Step-2: Brainstorm, Idea Listing and Grouping

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### 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!

### Bharani Kumar

Indication of high temperature in hazardous areas

Alerting the public in case of emergency

The workers can be alerted by the device itself

The temperature range of the device must be studied

### Manibalan

The control setup range must be fixed

LORA communication seems to be the best option

The device can be fixed with ID cards of employees

### Thilak

Use a temperature sensor that is light in weight

Use a gas sensor to sense the presence of hazardous gases

This must interfaced with a Industry standard Microcontroller

The Microcontroller must light in weight

### Bhuvanesh

Monitoring of motors in hazardous areas using sensors

Fixed sensors on the receivers could help detect wild motions

Its better to embed only 2 of the features for first phase

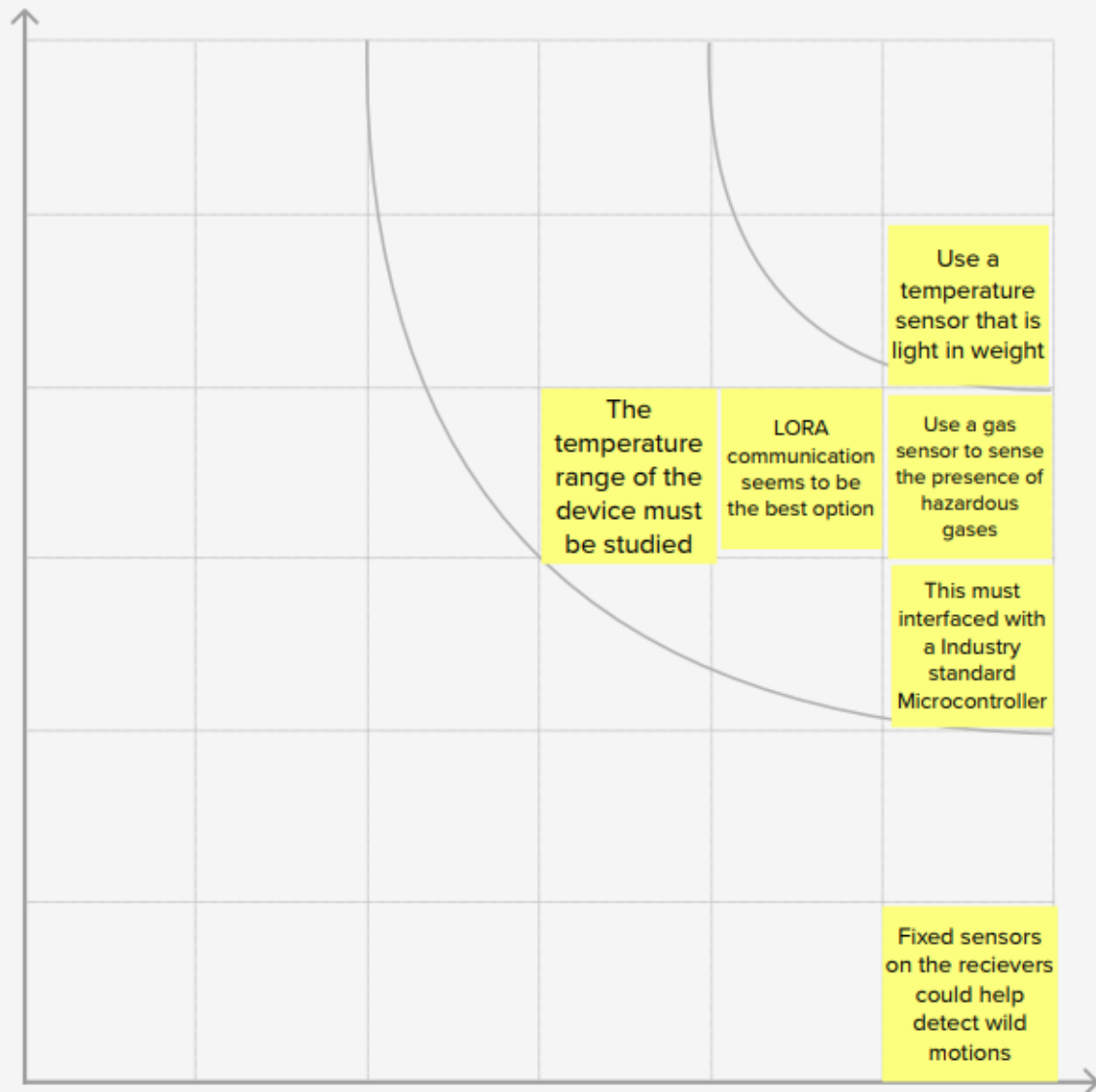
### Step-3: Idea Prioritization

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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



Feasibility