

## Ideation Phase


### Brainstorm & Idea Prioritization Template

Team ID	PNT2022TMID11625
Project Name	Signs With Smart Connectivity For Better Road Safety
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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**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**

Static signs delay the traffic by stopping the vehicles at the intersection during peak hours.

**PROBLEM**

During signals breakdown, there are serious and widespread traffic difficulties during peak hours.



#### Key rules of brainstorming

To run a 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

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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 icon to sketch! Icon to start drawing!

#### DHARANI.M

Digital speed limit maintain system

Animal crossing detection system

Accident prevention in foggy areas using sensor detector to alert the vehicle

Alarm intimation on parking vehicle in no parking

#### MATHUMITHA.A

when the vehicle crosses the stop line in load signal, automatically the vehicles shutdown

speed sensor controls the speed accords to the road rules

sensing distance between the vehicles, and intruding through alarm and make the distance between vehicles as advised per rules

Digital signs are not affected by poor weather and lighting conditions, unlike existing traffic sign posts.

sensors on satellite to monitor the traffic controls

predict overload for imbalance of vehicle

#### NIRAIMATHILK

When the vehicles crosses the stop line in road signal, an alarm be set by keeping sensor on the stop line

For emergency vehicles (e.g., ambulances) it dynamically creates "green routes" by adjusting the frequency of the traffic lights to reduce the time of intervention

location information of digital sign posts are transmitted to on-coming call

Send out geo-location data in order to sustainable and autonomous on open road

Drivers to be informed of the availability of the charging stations and petrol pump

improved safety of Vulnerable Road Users (VRU), like pedestrians, cyclists, etc.

#### PRAVINA.D

intimating road signs on prediction

Helping road users navigate through or around special events.

The server has to perform authentication to ensure clients are genuine, and that acknowledgements of the signs are made by the client.

signs will appear promptly and automatically on in-vehicle displays to alert the driver

Implementation of digital road signs on critical intersections

Improved driving experience, reducing the time it takes to circumvent blocked traffic situations related to accidents, road works

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### 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

GPS tracking (location data)

Detective sensor

Alert message

## 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

