


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID52137
Project Name	Signs with smart connectivity for better road safety.
Maximum marks	2 marks

Brainstorming-1

Template



**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

➔

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.
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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

PROBLEM

How might we [your problem statement]?

🧠

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.

2

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!



T.Ravi chandran

Traffic signals will change automatically.

That button is used when there is no network connectivity.

We can digitalize the boards that can even more clearly visible.

Using IOT device the accidents happened in the road can be

Using PIR sensor presence of a moving body is detected.

Using cloud communications the data can be shared through network.

E.Pooja

High brightness signs are used to improve road safety.

Landslide will be detected using the sensors in the mountain roads.

Using weather API the can be predicted and the weather will be displayed.

Using AI the traffic signals would be controlled for the people.

Weather report will be displayed in the sign board using the weather API.

During off peak hours weather based speed limits can be changed according to the traffic.

S.Robinson

Road diversion due to construction and traffic can be avoided.

Road safety digitalized and we will improved through digital sign boards.

Road safety digitalized and we'll improved through digital

Smart signs are displayed through sign boards.

Regulatory checks of the sign boards improve the reliability of this system.

Sign boards may not work some times due to no solar power.

P.Rooba

Road safety is of prime importance to reduce the biggest causes of deaths in the country.

They allow people and automotive to transverse a divers range of

While line marking on the road is less effective under rain ,snow and fog conditions.

Hence road safety education is as essential as any other basic skills of survival.

So that they reach their destination without any hindrance.

Set very high fines for traffic violation for both driver and

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

TO PROVIDE THE BETTER VIEW FOR THE DRIVERS.	Regulatory checks of the sign boards improve the reliability of this system.	We can digitalize the boards that can even more clear to drivers.	High brightness signs are used to improve road safety.	Smart signs are displayed through sign boards.
Traffic control	Using AI the traffic signals would be controlled for the people who using the crosswalks.	The sign boards have button mode and that button is used when there is no network connectivity.	Using PIR sensor presence of a moving body is detected so that while the traffic time on the	Traffic density by using the GPS of mobile phone.
Weather based controlling	During off peak hours weather based speed limit is avoided and the speed limits can be changed according to the traffic.	Weather report will be displayed in the sign board using the weather	Road safety digitalize and we will improved through digital sign boards.	Based on the weather the speed limit in the sign board may increase or decrease using weather API.

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

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



Brainstorming-2



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

C Learn how to use the facilitation tools

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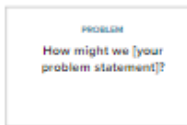
[Open article](#) ➔

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T.Ravi chandran

Wireless sign notification and acknowledgement.

Wireless digital traffic sign post.

Transceivers send out a basic safety message every tenth of a second.

Speed violation citation and notification.

Where the transmitting vehicle is by latitude & longitude.

Improved air quality and environment.

E.Pooja

Improved urban quality of life.

ICT infrastructure road condition security.

Green light optimal speed advisory.

Detection identification risk analysis reaction execution.

Vulnerable road user (VRU) alerts .

Discover parking and charging.

S.Robinson

Increased safety less traffic congestion less driving stress etc.

Less traffic accident.

Provide instruction such as road works information.

Energy management emission awareness.

Health aware smart city resident.

Controls the flow of traffic and emission.

P.Rooba

Reducing travel time by dynamic adjustment of traffic signal timing.

Giving priority way of access to traffic lights .

Data analytics enable street lights .

Wireless traffic violation detection.

Automatic traffic violation citation.

Road will no longer be viewed as static infrastructure.

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 20 minutes

TO avoid traffic accident.	Wireless digital traffic sign post.	Green light optimal speed advisory.	Less traffic accident.	Wireless traffic violation
TO improved road safety.	Data analytics enable street lights.	Energy management emission awareness.	Vulnerable road user (VRU) alerts.	Wireless sign notification and acknowledgement.
Qualities.	Improved air quality and environment.	Improved urban quality of life.	Provide instruction such as road works information	Giving priority way of access to traffic lights.

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