

# Define your problem statement

Design Intelligent Wirelessly connected smart road signs capable of displaying different speeds for different weather conditions, traffic and route traffic through the quickest and safest possible way.

→ 5 minutes

## PROBLEM

Rain makes brakes inefficient and leads to accidents

#### PROBLEM

Fog reduces visibility and increases the probability of accidents

#### PROBLEM

School Zone flags slow down traffic even when schools are closed/ operating

## PROBLEM

Road quality varies over time but static road signs don't

# PROBLEM

Traffic diversion requires human intervention



### Brainstorm

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

→ 10 minutes

# Avinash T

# Using calculates speed for every point in map automatic traffic diversions Using cloud server using open weather api to get data on weather sign color change based on on eligibiting conditions

Al based image processing to detect rain/ wet roads	School and hospital zones dynamically set road signs speed	vehicle based speed ar lane displ
accident detection	Timer displaying how much time for	

traffic to clear

out

Barath kanah

diversion

# Danish

Dhanush kumar

so emergency Remote view

vehicles can capability to

easily pass plan route

Schools

timings set

to road

signs

Camera monitors

road quality and

speed is

assigned based

on road quality

Camera

attached to

every traffic

sign to monitor

traffic

Lane mapper

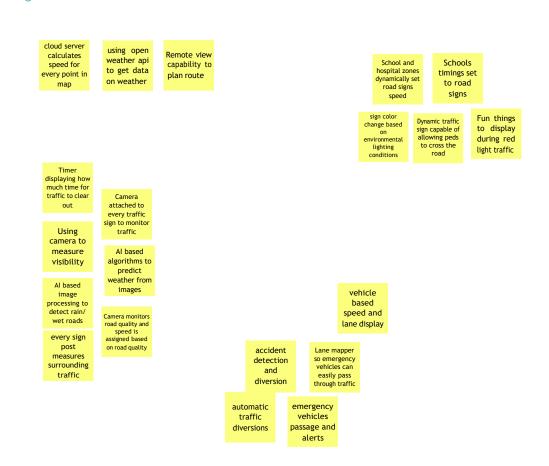
through traffic

Al based algorithms to predict weather from images	every sign post measures surrounding traffic	emergency vehicles passage and alerts
Dynamic traffic sign capable of allowing peds to cross the road	Fun things to display during red light traffic	



# Group ideas

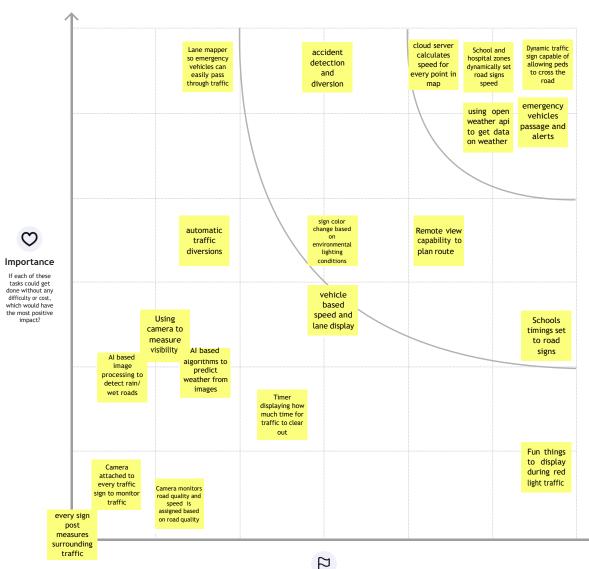
Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.





# 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.





Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)