

Project Design Phase-I
Proposed Solution Template

Date	4 october 2022
Team ID	PNT2022TMID01063
Project Name	Project - Signs with smart connectivity for better road safety

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To replace the static signboards, smart connected sign boards are used.
2.	Idea / Solution description	<ul style="list-style-type: none">● These smart connected sign boards get the speed limitations from a web app using weather API and update automatically.● Based on the weather changes the speed may increase or decrease● Based on the traffic, the diversion signs are displayed.● Guide (Schools), Warning and Service(Hospitals, Restaurant) signs are also displayed accordingly.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">● The weather and temperature details are obtained from the Open Weather Map API.● Using these details, the speed limit will be updated automatically in accordance with the weather conditions
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">● Guide signs and warning signs are displayed to the public.● If there is no traffic, Customer can reach the destination before the expected time.

5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ● Since APIs are used to actively monitor the customer's environment, this project employs a business strategy in which revenue will be generated on the basis of the length of time in which the customers actively interact with the product.
6.	Scalability of the Solution	<ul style="list-style-type: none"> ● It has greater chance in reducing the risk for the people as it is more visible than the normal signs, which saves a lot of lives at stake.