

Project Design Phase-I
Proposed Solution Template

Date	13 October 2022
Team ID	PNT2022TMID39076
Project Name	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 design a dynamically changes smart signs connectivity for better road safety
2.	Idea / Solution description	In present Systems the road signs and the speed limits are Static. But the road signs can be changed in some cases. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents then we can change the road signs accordingly if they are digitalized. This project proposes a system which has digital sign boards on which the signs can be changed dynamically. If there is rainfall then the roads will be slippery and the speed limit would be decreased. There is a web app through which you can enter the data of the road diversions, accident prone areas and the information sign boards can be entered through web app. This data is retrieved and displayed on the sign boards accordingly.
3.	Novelty / Uniqueness	A future trend in intelligent transportation systems is "smart road signs" that incorporate smart codes (e.g., visible at infrared) on their surface to provide more detailed information to smart vehicles. Such smart codes make road sign classification problem aligned with communication settings more than conventional classification.
4.	Social Impact / Customer Satisfaction	Provides variety of services to customer to keep better road safety.
5.	Business Model (Revenue Model)	Selling the digital sign to places of less traffic monitoring system. High commercial value on high traffic areas for traffic monitoring and display of the fastest route. Export to foreign country where there's lack of road signs.

6.	Scalability of the Solution	<p>Primary reason for developing these route placards is to make the roads safer for all of us. The road signage of the future might also be used to transmit crucial data to driverless cars. These signs may appear to humans to be conventional road indicators. It can also complement the system designs of driverless cars.</p>
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