

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID14057
Project Name	IOT – Signs with smart connectivity for better road safety
Maximum Marks	2 Marks

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)	In present system the road signs and the speed limit are static. But the road signs can be changed in some cases. This project proposes a system which has digital sign boards on which the signs can be changed dynamically.
2.	Idea / Solution description	This paper proposes the method of using vehicle mounted camera, to extract the image frames from the video segment, to remove the effect of the different illuminations on extracted image frames, to identify the regions of interest, to extract the traffic warning sign and to identify the symbol of the traffic warning sign.
3.	Novelty / Uniqueness	The protable smart road is a mobile road that can be installed on roads that had crowd accidents in the past with a high probability of crowd. The product is designed to predict the intended crowd based on sensor fixed at certain points along the road path.
4.	Social Impact / Customer Satisfaction	Customer satisfaction for quality of life such as business and many other have been analyzing organizations in order to please their customer satification for better QOL.
5.	Business Model (Revenue Model)	Road safety is crucial and the government intends to leverage technology for augmenting the safety of citizens. The technology enables you to control traffic, catch the lawbreakers, and provide road safety.
6.	Scalability of the Solution	People also ask what is the solution for better road safety? Big data analysis and machine learning algorithms could empower smart traffic control system to better manage traffic in busy cities, improving flow, safety and reducing gridlock.