**Project Design Phase-l**

**Proposed Solution Template**

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| **Date** | **27October2022** |
| **Team ID** | **PNT2022TMID52163** |
| **Project name** | 1. **Signs with smart connectivity for better road safty** |
| **Max mark** | **2 mark** |

**Proposed solution template:**

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| **SI no** | **Parameter** | **Description** |
| **1.** | Problem Statement (Problem to be solved) | Driving at speed significantly increases both the likelihood of a crash occurring, and the severity of its consequences. |
| **2.** | Idea/Solution description | * Drive in the prescribed speed limits on the various roads. Always remember that “Speed thrills but kills”. Always put on helmets, seat belts and other safety equipments before driving a bicycle/ motor cycle/vehicle. * Light Detection and Ranging gun is a weightless and simple tool, which enables law officials to catch and book vehicles that crosses the speed limit. * Traffic signs are necessary to give information for routes, directions, and warnings for drivers. These should be clear to convey the intended message for road users to understand. Drivers tend to ignore the road signs while authorities opt not to enforce them. |
| **3.** | Novelty/Uniqueness | Roads should be designed for the safety of all road users. This means ensuring adequate facilities for pedestrians, cyclists and motorcyclists. Measures such as footpaths, cycling lanes, safe crossing points and traffic calming measures are critical to reducing the risk of injury among these road users. |
| **4.** | Social Impact/Customer Satisfaction | * Customer satisfaction is important because it illustrates whether your customer base likes what you're doing. Research shows that high satisfaction leads to greater customer retention, higher lifetime value, and a stronger brand reputation. Low customer satisfaction scores are important, too. * Responding to customer feedback increases satisfaction because it shows customers that you listen to what they have to say about your business instead of simply seeing them as a name on a receipt. You take interest in their thoughts about your business, and you interact with them as well. |
| **5.** | Business Model (Revenue Model) | **1. Accident Detection and warning.**   * Post accident models. * Communicate with nearby vehicles and EOCs. * Event sensing cabability.   **2.Furure smart cities.**   * Advance in smart road. * Roads that harvest energy. * Roads that automatically charge your vehicles.   **3.Improve sign age of better roads.**   * Current trends in traffic signs maintenance. * Investing in traffic signs and infrastructure.   **4.Smart traffic management.**   * Congestion detection. * Adaptive control * Connected tha vehicle emergency routing. |
| **6.** | Scalability of the solution | Once data are transmitted to the backend services, various workflows can be created to take necessary actions, e.g. scheduling a service with the car service provider, or if large numbers of care are in the same location, then the traffic management system can take necessary action. |