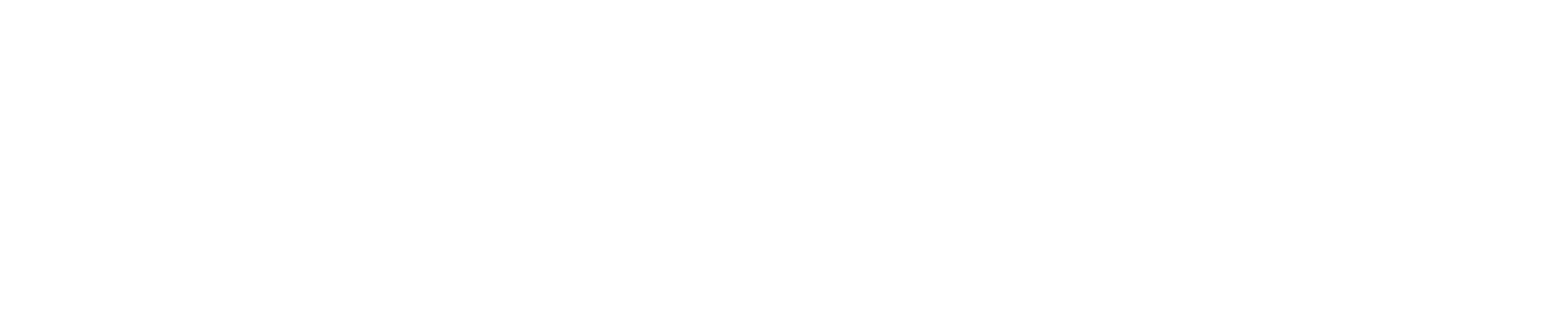
**Project Title:** Signs with smart connectivity for better road safety **Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID02365

7. BEHAVIOUR BE

They can search their problems on the website, and signboard shows the desired information



**9. PROBLEM ROOT CAUSE RC**

Earlier systems were more prone to accidents because static sign boards cannot be changed based on the environmental conditions.

**2. JOBS-TO-BE-DONE / PROBLEMS J&P**

* Speed limit can be adjusted according to weather condition for safety.
* Used to display school zone or hospital zone
* Reduce the time taken for travel based on the traffic analysis.
* Based on the traffic and fatal situations the diversion signs are displayed.

**5. AVAILABLE SOLUTIONS AS**

Static sign boards show only one particular information, but smart sign board provides us various information spontaneously based on the present conditions of that particular location.

**6. CUSTOMER CONSTRAINTS CC**

* Power consumption is
* high Network connection
* Technical issues

1. **CUSTOMER SEGMENT(S) CS**

* Drivers
* Passengers
* pedestrians

i.e. directly related: ﬁnd the right solar panel installer, calc usage and beneﬁts; indirectly associated: customers spen

**Focus on J&P, tap into BE, understand RC**

**Explore AS, differentiate**

**Define CS, fit into CC**

**Focus on J&P, tap into BE, understand RC**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Identify strong TR** | **3. TRIGGERS**  **TR**   * Increase productivity of the day and time can be efficiently managed. * Ensure road safety * Cost effective   (instead of using multiple static sign boards, our smart sign board can perform multiple tasks) | **10. YOUR SOLUTION SL** | **8. CHANNELS of BEHAVIOUR** | **CH** |
| The weather and temperature details are obtained from the OpenWeatherMap API. Using these details, the speed limit will be updated automatically in accordance with the weather conditions. Also, the details regarding any accidents and traffic congestion faced on the particular road are obtained .Based on this, the traffic is diverted followed by a change in map path and the traffic is cleared.  So in the traffic sign board , some buttons will be placed which will be used to make it generic; where each button will be given a functionality such as changing the warning signs, which are predefined and separate signs will be present for both school and hospital zones. By activating this button, either through the web application or the physical buttons, sign of the board can be changed accordingly, and the speed limit will also be set depending upon the zones. Also, the pedestrians are given an option to change the traffic signs if they want to cross the road.  if the pedestrian presses the button that is present on the post at the end of the road, then the traffic will be analyzed immediately.  Accordingly, the sign of the traffic signal will be changed. This in turn reduces the frequent changing of the traffic signs even if the pedestrians are not present. | * 1. ONLINE   Online website provides information according to the customer’s need.   * 1. OFFLINE   In offline, according to the information acquired from the website, customer can take the required action i.e increase or reduce speed, avoids traffic, changing the routes.  s | **Identify strong TR** |
|  |  |  |
| **4. EMOTIONS: BEFORE / AFTER**  **EM**  Life risk > safer – speed limit adjustment increases safety  Tedious > simple, comfortable – easy guidance and reduce the number of sign boards used. |