# Project Design Phase - I

# Problem Solution Fit

| Date | 21 September 2022 |
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| Team ID | PNT2022TMID41909 |
| Project Name | Signs with Smart Connectivity for Better Road Safety |
| Maximum Marks | 2 Marks |

**Define CS, fit into CC**

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

**Explo**

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

### 1. CUSTOMER SEGMENT(S)

Who is your customer?

The public people to make the safe journey and elite drive static TIP signboard used. Speed Limit from web app by weather API. IOT it's connected to Open Weather MAP.

### 6. CUSTOMER CONSTRAINTS

What constraints prevent your customers from taking action or limit their choices of solutions?

The digital smart sign boards has enable road and people for safety and open weather API and web application used to user to know the weather conditions any where.
An IOT based smart connected digital sign boards for better road safety is more effective for people

### 5. AVAILABLE SOLUTIONS

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?

Static sign boards are replaced and smart sign boards were used
**MERITS:** It can predict the traffic in earlier is helpful to drivers the people in another way
**DMERITS:** The highways, static signs

### 2. JOBS-TO-BE-DONE / PROBLEMS

Which jobs-to-be-done (or problems) do you address for your customers?

There is a need to change static sign boards into dynamic smart connected sign boards.

These smart connected sign boards gather the speed limitations form web application using weather API and update automatically

### 9. PROBLEM ROOT CAUSE

What is the real reason that this problem exists? What is the back story behind the need to do this job?

The lack of vague road ways
Based on the weather changes the speed may increase or decrease
The incorrect road ways
Overtaking on the wrong side

### 7. BEHAVIOUR

What does your customer do to address the problem and get the job done?

As a guider, the IOT cloud updates the smart connected digital sign boards on the condition of the roads on a regular basics
Guide schools, warning and services, hospitals, restaurants sings are also displayed accordingly

### 3. TRIGGERS `TR`

What triggers customers to act?

It can detect the current weather conditions and react automatically according to open the weather map

### 4. EMOTIONS: BEFORE / AFTER `EM`

How do customers feel when they face a problem or a job and afterwards?

The customers essential need is to avoid accidents, the purpose of making smart sign boards to establish safe journey among to the people

### 10. YOUR SOLUTION `SL`

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.

- If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behavior.

- The IOT based digital sign boards with smart connectivity for better road safety using open weather API to predict the weather in earlier stage that lead to help the people.
- These smart connected sign boards gather the speed limitations from web application using weather API and a update information's automatically

### 8.CHANNELS of BEHAVIOUR

**8.1 ONLINE**
What kind of actions do customers take online? Extract online channels from #7

We notify the all information about of weather / traffic in web application

**8.2 OFFLINE**
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

User use the digital sign board that indicates information about road safety