

## Project Design Phase-I Problem – Solution Fit Template

Date	01 October 2022
Team ID	PNT2022TMID49512
Project Name	Project - Signs with smart connectivity for better road safety.
Maximum Marks	2 Marks

Template:

**Problem-Solution fit canvas 2.0** Purpose / Vision

<p><b>1. CUSTOMER SEGMENT(S)</b> <i>Who is your customer?</i></p> <p>Those who are facing risk from road traffic are pedestrians, drivers and vehicle passengers.</p>	<p><b>4. CUSTOMER CONSTRAINTS</b> <i>What constraints prevent your customers from taking action to solve their chosen?</i></p> <p>Customers are hesitate to use NFC, because the power consumption is comparatively more in NFC enabled devices. NFC is not so advantageous for some users due to complex procedures which programmed in this device.</p>	<p><b>5. AVAILABLE SOLUTIONS</b> <i>Which solutions are available to the customers when they face the chosen to get the job done? What have they tried in the past? What?</i></p> <p>This NFC technology can effectively detect and identify traffic sign. In the past, they used speed reduction system PROS: It reduce traffic fatalities, serious injuries. CONS: Sometimes this speed reduction will cause more traffic</p>
<p><b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <i>What specific jobs or problems do you want to solve?</i></p> <p>Our job is to make the customers to install the NFC tag in their vehicles to avoid accidents and reduce death rates.</p>	<p><b>4. PROBLEM ROOT CAUSE</b> <i>What is the real reason that this problem?</i></p> <p>Main cause of accidents and crashes are due to human errors. Over speeding, inadequate road markings, broken vehicles can be avoided by using some tracking sensors with the help of NFC technology.</p>	<p><b>7. BEHAVIOUR</b> <i>Is directly related? To the right when speed increases, calculate usage and</i></p> <p>The customer needs to create a larger loop in the reader antenna to increase the read range.</p>
<p><b>3. TRIGGERS</b> <i>What triggers customers to act? Is seeing their neighbour installing solar panel, reading about a news or solution in the news?</i></p> <p>NFC works without battery and connect instantly for data exchange.</p>	<p><b>10. YOUR SOLUTION</b> <i>If you are working on an existing business, write down your current solution. If you are working in a new business proposition, then keep it blank.</i></p> <p>By using this NFC technology, accident can be detected early. Customers solve their problem by installing the NFC tag in their vehicles.</p>	<p><b>8. CHANNELS of BEHAVIOUR</b> <i>What kind of action do customers take online? Extract online channels from W?</i></p> <p>Customers can buy this product online easily and they can also see the details and features of NFC reader in the website.</p>
<p><b>4. EMOTIONS: BEFORE / AFTER</b> <i>How do customers feel when they face a problem or a job and afterwards?</i></p> <p>Before using this NFC technology, they face congestion in traffic, injuries and feel insecurity such as fatigue and fears After using this technology, security becomes high and personalize their environments.</p>		<p><b>9. CHANNELS of BEHAVIOUR</b> <i>What kind of action do customers take offline? Extract offline channels from W? and use them for calls and development</i></p> <p>People can buy this NFC reader in the stores and they will be given user manual on how to use this product and we are providing services also in case any damages occurs in future.</p>