

Project Design Phase-I Problem – Solution Fit Template

Date	01 October 2022
Team ID	PNT2022TMID49514
Project Name	Project – Gas Leakage Monitoring and Alerting System
Maximum Marks	2 Marks

Problem - Solution Fit Template:

Template: FIGURE 1

Problem-Solution fit canvas 2.0

Purpose / Vision

<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">Define CS, fit into CC</div> <div> <p>1. CUSTOMER SEGMENT(S) CS</p> <p>Who is your customer? I.e. working parents of 0-5 y.o. kids</p> <p>For industry owner-Ensuring the safety of workers is the main thing Sometimes it is hard to identify from which area the leakage is occurring</p> <p>For homemakers-they are not able to identify whether the gas leakage is occurring due to external source or something.</p> </div> <div style="writing-mode: vertical-rl; font-weight: bold;">Explore AS, differentiate</div> </div>	<div style="display: flex; justify-content: space-between;"> <div></div> <div> <p>6. CUSTOMER CONSTRAINTS CC</p> <p>What constraints prevent your customers from taking action or limit their choices of solutions? I.e. spending power, budget, no cash, network connection, available devices.</p> <p>1.proper maintainance should be taken atleast once in a month and this prevents the customers from taking actions in gas Leakage problem.</p> <p>2.the services can be done only by technicians so it is to set up gas leakage system in home/industries</p> </div> <div></div> </div>	<div style="display: flex; justify-content: space-between;"> <div></div> <div> <p>5. AVAILABLE SOLUTIONS AS</p> <p>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? I.e. pen and paper is an alternative to digital notetaking</p> <p>Usage of sensors to sense gas leakage. GSM module helps us to get notification when the gas eakage is sensed</p> </div> <div></div> </div>
<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">Focus on J&P, tap into BE, understand RC</div> <div> <p>2. JOBS-TO-BE-DONE / PROBLEMS J&P</p> <p>Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.</p> <p>Jobs to be done</p> <p>Fautomatic nob closing</p> <p>switching off power supply</p> <p>Problems</p> <p>if the cylinder is not maintained properly it cause problems.</p> <p>tprefer foing of cylinders under room temperature not in a hot area or cold places</p> </div> <div style="writing-mode: vertical-rl; font-weight: bold;">Focus on J&P, tap into BE, understand RC</div> </div>	<div style="display: flex; justify-content: space-between;"> <div></div> <div> <p>9. PROBLEM ROOT CAUSE RC</p> <p>What is the real reason that this problem exists? What is the back story behind the need to do this job? I.e. customers have to do it because of the change in regulations.</p> <p>1.sometimes sensor does not work properly which can cause the major problem</p> <p>2.it is difficult to identity different between LPG gas and other gasses</p> </div> <div></div> </div>	<div style="display: flex; justify-content: space-between;"> <div></div> <div> <p>7. BEHAVIOUR BE</p> <p>What does your customer do to address the problem and get the job done? I.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (I.e. Greenpeace)</p> <p>1.Identifies the issies with the help of sensor.</p> <p>2 Regular monitoring is done</p> <p>3. automnatic registraion when the cyhnder is about to empty.</p> </div> <div></div> </div>
<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">Identify strong TR & EM</div> <div> <p>3. TRIGGERS TR</p> <p>What triggers customers to act? I.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.</p> <p>identification of gas leakage will be done immediately and necessary measurements are taken incase of emergency</p> </div> <div></div> </div>	<div style="display: flex; justify-content: space-between;"> <div></div> <div> <p>10. YOUR SOLUTION SL</p> <p>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 behaviour.</p> <p>1. Switch off/off of any electric device should be avoided</p> <p>2. creating a short cuts in industries to evacuate everyone in case of gas leakage</p> </div> <div></div> </div>	<div style="display: flex; justify-content: space-between;"> <div></div> <div> <p>8. CHANNELS of BEHAVIOUR CH</p> <p>8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7</p> <p>Easy way to built relationship and interaction with people is done in a proper manner</p> <p>8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.</p> <p>The customers prefers to visit professionals.The products based on gas Leakage system is less.returning the product is easy</p> </div> <div style="writing-mode: vertical-rl; font-weight: bold;">Extract online & offline CH of BE</div> </div>

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