

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

- Industry use-Because the safety of workers is the primary concern, it can be difficult to determine where the leak is coming from.
- Homemakers are unable to determine whether the gas leak is caused by an external source or something else.

**6. CUSTOMER CONSTRAINTS****CC**

1. Proper maintenance should be performed on a regular basis to avoid major mishaps caused by leakage.
2. Because the services can only be performed by technicians, it is difficult to install a gas leakage system in a home or industry.

**5. AVAILABLE SOLUTIONS****AS**

1. The use of sensors to detect gas leakage.
2. 2-The GSM module allows us to receive notifications when there is a gas leak.
3. 3-The use of LEDs can alert workers in a noisy environment.

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

Jobs-to-be-done:

1. Message to be delivered to the ambulance
2. The location of the leak detection

Problems:

1. Cylinder and boiler maintenance must be performed on a regular basis.
2. Due to corroded pipes, gas could indeed easily react and cause an explosion.

**9. PROBLEM ROOT CAUSE****RC**

1. Sensor malfunction can cause serious problems.
2. High temperatures, corrosive pipes, erratic maintenance, and the presence of gas in the container above the estimated level can all result in a sudden explosion.

**7. BEHAVIOUR****BE**

1. Detects problems using a sensor.
2. There is ongoing monitoring.
3. Automatic registration when the cylinder is about to empty.

<b>3. TRIGGERS</b> <span>TR</span> <ul style="list-style-type: none"> <li>Gas leaks will be identified immediately, and necessary measurements will be taken in the event of an emergency.</li> </ul>	<b>10. YOUR SOLUTION</b> <span>SL</span> <ol style="list-style-type: none"> <li>Avoid turning on and off any electrical device.</li> <li>A proper evacuation plan and the implementation of emergency drills will assist workers in taking appropriate action during an emergency.</li> <li>The use of a siren can serve to alert workers.</li> <li>Sending a message to the user and the ambulance</li> </ol>	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <p><b>8.1: ONLINE</b></p> <ul style="list-style-type: none"> <li>Easy way to build relationship and interaction with people is done in a proper manner</li> </ul> <p><b>8.2: OFFLINE</b></p> <ul style="list-style-type: none"> <li>Customers prefer to consult with professionals.</li> </ul>
<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> <ul style="list-style-type: none"> <li>After: This product gives customers confidence in their safety.</li> <li>Before: People were concerned about explosions and accidents caused by gas leakage.</li> </ul>		