

Project Design Phase-I - Solution Fit

Project Title: Gas leakage monitoring and alerting system

Team ID: PNT2022TMID05741

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

CS

- Engineers
- Industrialists
- Safety control personals

6. CUSTOMER CONSTRAINTS

CC

- According to the square feets, the devices should be installed.
- Network connection
- Affordable budget

5. AVAILABLE SOLUTIONS

AS

- Upgrade to premium network plan.
- Man-power is used to monitor the leakage.
- Availing network connection from a reliable service provider.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

- The device's ability to withstand harsh environments is questionable.
- Due to a network problem, the data could not always be uploaded to the cloud.

9. PROBLEM ROOT CAUSE

RC

- The quality of the material from which the device is made plays a crucial role in the device's ability to function in harsh environments.
- If the workers do not control properly, the gas may pose a high risk to their health or industrial property.
- The installation location of device & the network map used by the user pose the cause of network problem.

7. BEHAVIOUR

BE

- A hostile environment is only prevalent in certain industries; therefore, the frequency of such a problem is low. In such a case, the customer complains several times to get attention.
- The network problem is wide spread as most of the industries are located in the country side. Here is the contact to both the developers and the service providers.
- If the leaked gas is very toxic, there is a possibility of causing hereditary health problems.

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

3. TRIGGERS TO ACT TR	10. YOUR SOLUTION SL	8. CHANNELS of BEHAVIOUR CH	
<div data-bbox="136 63 701 343"> <ul style="list-style-type: none"> ➤ Severe damage or more serious health problems from toxic gases force them to seek a solution as soon as possible. ➤ Device usage is displayed in the newsfeed may trigger the people to install it. </div> <div data-bbox="109 363 730 515"> <p>4. EMOTIONS: BEFORE / AFTER EM</p> <ul style="list-style-type: none"> ➤ Before: user feels insecure and deceived. ➤ After: user feels confident, secured and sincerity of developers. </div>	<div data-bbox="840 97 1408 284"> <ul style="list-style-type: none"> ➤ Device can be manufactured in various standards based on the environment. ➤ Develop an economical system and an application which will monitor and alert the users. </div>	<div data-bbox="1489 76 1783 355"> <p>8.1 ONLINE</p> <ul style="list-style-type: none"> ➤ Virtual community ➤ Social community ➤ Email to developer <p>8.2 OFFLINE</p> <ul style="list-style-type: none"> ➤ Complaint letters </div>	