Project Title: Gas Leakage Monitoring and Alerting System for Industries   **Project Design Phase-I** - **Solution Fit Template**

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) `CS`

Who is your customer?

Industries or Organizations who having risks of gas leakage

6. CUSTOMER CONSTRAINTS `CC`

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

Measurement accuracy is less if gas is with heavy dust, High cost..

5. AVAILABLE SOLUTIONS `AS`

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?

Placing sensors in leak points and using multiple sensors for prior detection

In the past, flame safety lamp is used to detect presence of methane

Advantage of solution – reduce time

Disadvantages of solution – effort needed

Explore AS, different

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

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

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

Late detection sometimes.

9. PROBLEM ROOT CAUSE `RC`

What is the real reason that this problem exists?

Because of inaccuracy in measurement, fire or explosion may occur if it is not carefully detected

7. BEHAVIOUR `BE`

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

Find the best strategy to increase the accuracy in measurement.

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

3. TRIGGERS `TR`

What triggers customers to act?

Considering safety measures for workers and in think of future impacts due to that.

10. YOUR SOLUTION `SL`

If you are working on an industries having chance of gas leakage, prior measurement strategies for detecting gas leakage is important. And for increasing accuracy in measurement, placing of sensors at leak point.

8. CHANNELS of BEHAVIOUR `CH`

8.1 ONLINE

What kind of actions do customers take online? Expecting equal solution as other customers get through offline.

8.2 OFFLINE

What kind of actions do customers take offline?Use the solutions given by

industries

4. EMOTIONS: BEFORE / AFTER EM

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

Insecure about gas leakage