

Project Design Phase-I - Solution Fit

Project Title: Gas Leakage Monitoring and Alerting System

Team ID: PNT2022TMID47529

Team Members	
Team Head	AJAY KUMAR K – 910419106001
Team Member 1	SNEHA R M – 910419106301
Team Member 2	KANNAKI M – 910419106003
Team Member 3	SUBITSHA R – 910419106009

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS In the automotive industries like oil and gas, hotels, and places where flammable gases are used in abundance, a gas detection system is a basic requirement for safety.	6. CUSTOMER CONSTRAINTS CC High budget in installing other products make them to move far from modern technologies.	5. AVAILABLE SOLUTIONS AS The gas sensors help detect the concentration of the gases present in the atmosphere to avoid hazardous consequences like fire breakouts. The sensor-enabled solution helps prevent the high risk of gas explosions and affecting any casualties within and outside the premises.	Explore AS and Differentiate

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

- Suffering from many losses due to gas leakage.
- Most of GAS explosions are caused by undetected gas leakage in the pre-detection condition.
- So that, Gas Leakage Monitoring and Alerting detection system is needed.

9. PROBLEM ROOT CAUSE**RC**

When the workers failed to monitor properly, the gas can cause high risk to their health or the properties of the industry.

7. BEHAVIOUR**BE**

If the gas leaked is heavily toxic, there is a chance of causing hereditary health issues too

Using manpower as the source of monitoring the leakage causes high hazards. If the gas leaked is heavily toxic, there is a chance of causing hereditary health issues too.

3. TRIGGERS**TR**

The heavy damages or higher health issues due to the toxic gases urges them to find out a solution as soon as they could possible

4. EMOTIONS: BEFORE / AFTER**EM**

Before: The heavy losses due to the leakages them feel of guilt due to reduced reputation of their products.

After: Increased the level of confidence and feel

10. YOUR SOLUTION**SL**

In several areas, the gas sensors will be integrated to monitor the gas leakage. If any area gas leakage is detected the admins will be notified along with the location. In the web application, admins can view the sensor parameters.

8. CHANNELS OF BEHAVIOUR**CH****ONLINE**

Promoting through social media. With the help of social media entrepreneurs / influencer.

OFFLINE

Newspaper advertisements.