

Project Design Phase-I

Problem Solution Fit

Date	11 November 2022
Team ID	PNT2022TMID53804
Project Name	Gas Leakage Monitoring and Alerting System for Industries

Define CS, TR, Info CL	1. CUSTOMER SEGMENT(S) CS The industrialists who use gases for their manufacturing.	6. CUSTOMER LIMITATIONS CL <small>(E.G. BUDGET, DEVICES)</small> High budget in installing other products make them to move far from modern technologies.	5. AVAILABLE SOLUTIONS AS <small>(PLUSES & MINUSES)</small> The monitoring and controlling of the leakage could be done by the manpower. Even though man power could reduce electricity cost and monitor properly, it may cause high risk for their life. There is also a cause of some errors due to manpower.	Define AS, differentiable
	2. PROBLEMS / PAINS PR <small>(+ ITS FREQUENCY)</small> <ul style="list-style-type: none"> Suffering from many losses due to gas leakage. Having no proper system for controlling or monitoring the leakage. Facing heavy budget problems in buying and installing a system for monitoring and controlling. 	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. BEHAVIOR BE <small>(+ ITS INTENSITY)</small> <ul style="list-style-type: none"> 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. 	
Identify strong TR & EM	3. TRIGGERS TO ACT 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.	10. YOUR SOLUTION SL Develop an efficient system & an application that can monitor and alert the workers.	8. CHANNELS of BEHAVIOR CH Promoting through social media. With the help of social media entrepreneurs/influencer.	Extract online & offline CH of BE
	4. EMOTIONS EM <small>(BEFORE / AFTER)</small> Before: The heavy losses due to the leakages made them feel of guilt due to reduced reputation of their products. After: Increased the level of confidence and feel secured		OFFLINE <small>(E.G. WORD OF MOUTH, DIRECT, PERSONAL CONTACT)</small> Through newspaper advertisements.	