

Project Design Phase-I

Problem Solution Fit

Team ID	PNT2022TMID04334
Project Name	Gas leakage monitoring and alerting system for industries

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS The manufacturers who utilise gases in their processes.	6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL They turn away from current technology due to the high cost of installing the initial setups.	5. AVAILABLE SOLUTIONS <small>PLUSES & MINUSES</small> AS The staff might be deployed to keep an eye on and control the leak. Even though employing people guarantee thorough monitoring, there may be a risk to their lives. Human mistake is also responsible for some errors.	Explore AS, differentiate
	2. PROBLEMS / PAINS <small>+ ITS FREQUENCY</small> PR Not having a suitable mechanism in place to monitor or control the leak. Struggling to find funding for the purchase and installation of a monitoring and control system.	9. PROBLEM ROOT / CAUSE RC Gas can pose a serious risk to workers' health or to the properties of the company when sufficient monitoring isn't done.	7. BEHAVIOR <small>+ ITS INTENSITY</small> BE High risks are associated with using human resources to monitor leaks, and if highly hazardous gas is released, there is a probability that inherited health problems may also result.	
Identify strong TR & EM	3. TRIGGERS TO ACT TR The severe harm or increased health risks brought on by the harmful gases pushes people to look for a solution as soon as they can.	10. YOUR SOLUTION SL Create a reliable system and application that can track and notify the workers.	8. CHANNELS of BEHAVIOR CH ONLINE Online: Social media and news.	Extract online & offline CH of BE
	4. EMOTIONS <small>BEFORE / AFTER</small> EM Before: Felt bad about the numerous lives lost because of Bhopal Gas Tragedy caused by the gas leaks. After: felt happy that they are able to prevent such accidents.		OFFLINE Offline: Make awareness through education	