

Project Title: Hazardous area monitoring for industrial plant powered by IOT

Team ID: PNT2022TMID18102

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Industrial workers who work in industries where monitoring of temperature, gases and humidity are essential as these factors play a major role in the lives of the workers.	6. CUSTOMER CC <ul style="list-style-type: none">The customers cannot afford individual monitoring device.The monitoring device requires a lot of power and is not mobile.	5. AVAILABLE SOLUTIONS AS Wearable sensor nodes or smoke and temperature sensors monitor temperature and gases. Drawback is that the cost and power consumption is high.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P Monitoring the industry by getting physical parameters (temperature and gases) using sensors and sending the data to cloud. By setting a threshold for the sensor in cloud the problem can be addressed	9. PROBLEM ROOT CAUSE RC The conditions in the industry are not constant and improper maintenance is the root cause for can exaggerate it.	7. BEHAVIOUR BE Real time monitoring of the crucial parameters of the industry and regular maintenance.	
	Focus on J&P, tap into BE, understand RC			

3. TRIGGERS TR Fear of working in hazardous area with not enough monitoring of toxic gases, temperature, humidity etc..	10. YOUR SOLUTION SL Temperature and gases are sensed using sensors and sent to the cloud and using a mobile application the values can be monitored. A message is sent to the admin if the values exceed the set threshold values thus, allowing the workers to be evacuated immediately.	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE The workers can monitor temperature and gases in the mobile application 8.2 OFFLINE The workers perform necessary actions to improve the conditions in the industry and evacuate to reduce casualties.
4. EMOTIONS: BEFORE / AFTER EM Before the workers feel insecure working in a place with not enough monitoring After access to monitoring of the gases and temperature, workers can evacuate and reduce casualties inside the industry.		