# 1. CUSTOMER SEGMENT(S)

Define CS, fit into

- ❖ In Industry we have to ensure the safety of workers because we don't know the whether the gas leakage is occur.
- ❖ In home, we use gas stove for cooking purpose. To identify the leakage use some external device.

#### 6. CUSTOMER CONSTRAINTS



- To prevent the gas leakage, the industries must use quality pipes to transfer the gas.
- \* Maintenance should be taken atleast once in a month to prevent the gas leakage and services are done by technicians.

#### 5. AVAILABLE SOLUTIONS



Use GSM module to your product it will send the alert notification to concerned user.

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❖ In devices, we use sensor to sense the gas leakage.

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

J&P

CS

In Industries, we transfer the gas through pipe line if we use qualityless pipes it cause gas leakage and if we maintain the cylinder properly it also cause disaster.

### 9. PROBLEM ROOT CAUSE



- Sometimes the device gives false alarm it is a problem.
- We use sensors to sense the gas, sometimes the sensors are not working proper it is also a problem.
- We use lot of gases in industry it is difficult to identify the difference between the gas it gives a problem.

### 7. BEHAVIOUR



- With the help of sensors we identify the gas leakage.
- Monitor regularly to avoid gas leakage and we use gsm module to send alert notification.

# 3. TRIGGERS TR

- Industries must take safety precaution for workers because the workers safety is most important.
- Identify the leakage at the time we take necessary measurement incase any emergency.

# 4. EMOTIONS: BEFORE / AFTER EM

- ➤ Before use this product workers feel unsafe to work under the gas areas because if leakage occurs it cause lot of damage.
- After use this product workers feel safe and peaceful mind to concentrate on his/her work because the product the detect the leakage it gives alarm signal to alert the workers.

### 10. YOUR SOLUTION



Incase if leakage occurs, we have to create alternate way to move out the workers.

#### 8. CHANNELS of BEHAVIOUR



### 8.1 ONLINE

It's a way to maintain the relationship and we make lot of conversation to people.

## 8.2 OFFLINE

The product based on gas leakage system is very less and customer prefer to visit and saw the products