J&P

TR

EM

### 6. CUSTOMER CONSTRAINTS

What constraints prevent your customers from taking action

С or limit their choices of solutions? i.e. spending power, budget, no cash,

5. AVAILABLE

- ✓ Industries
- ✓ Hospitals
- Mining
- ✓ Hotels

Define CS, fit into

cus on J&P, tap into BE, understand

- ✓ Technical constraints
- ✓ Budget constraints

Existing systems are able to constantly monitor gas leakage along with storage of data in a database for predictions and analysis. The disadvantage of existing systems is the chance of malfunctioning of devices when dust, steam, or fog blocks the system. This would prevent the system from taking measurements.

Which solutions are available to the customers when they face the problem

do these solutions have? i.e. pen and paper is an alternative to digital notetaking

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

Which jobs-to-be-done (or problems) do you

## 9. PROBLEM ROOT CAUSE

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### 7. BEHAVIOUR

What does your customer do to address the problem and getthe job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

Gas leakage is an important aspect to pay attention to as serious damage can result if ignored. When the gas level rises above a certain level, it is important to raise an alarm. A survey has found that gas leakage problems are common in the oil and gas industries, and that lack of proper notification often leads to safety hazards. IOT can be used to continuously monitor gas leaks on a large scale, from a great distance.

Improper maintenance of the system and carelessness results in gas leakage hazards. The following are few causes that paves way to gas leakage

i.e. customers have to do it because of the change in regulations.

- ✓ Unreliable metal-metal seals
- ✓ Improperly installed tube fittings
- ✓ Poor tubing selection preparation
- Calculate usage and benefits of the system
- ✓ Customer volunteer work
- Take initiative steps towards problem if any in case.

## 3. TRIGGERS

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

#### 10. YOUR SOLUTION

for marketing and communication.

blurted gas..

What kind of solution suits Customer scenario the best? Adjust your solution to fit Customer behaviour, use Triggers, Channels & Emotions

This system is an artificial monitoring

system designed using IOT. The gas

detector captures the knowledge about gas

situations and posts this into a data pall.

The detector detects the leakage of gas under colorful atmospheric conditions. As soon as gas leakage is detected, the alarm is raised within the form of the buzzer. this technique is also supported by an TV to display the position of leakage, alert the

addict within the particular section to void

bystander, and spark the exhaust

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# **8.1 ONLINE CHANNELS**

What kind of actions do customers take online? Extract online channels from box #7 Behaviour

СН

- ✓ Need for safety of lives & environment
- ✓ Reviews from customers

- ✓ Stable internet connectivity required
- Check out for rescue measures
- ✓ Call emergency helplines

#### 4. EMOTIONS: BEFORE / AFTER

How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy &

Anxiety, phobic -> Decisive mindset, calm,

## 8.2 OFFLINE CHANNELS

What kind of actions do customers take offline? Extract offline channels from box #7 Behaviour and use them



- ✓Open all windows doors during gas leakage
- ✓ Ensure that main electrical supply is turned off
- ✓ Keep in reach of first aid kit & extinguishers

confident

Define CS, fit into CL

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