| Project Title: | HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IoT | Project Design Phase-I - Solution Fit Template | Team ID: PNT2022TMID50270 |

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) `CS`

Who is your customer?
i.e. working parents of 0-5 y.o. kids

Employees who monitor hazardous area in industrial plants.

6. CUSTOMER CONSTRAINTS `CC`

What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.

Smart beacon coverage area network access for beacon , beacon to watch connectivity.

5. AVAILABLE SOLUTIONS `AS`

Which solutions are available to the customers when they face the problem
or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking

Smart area monitoring sensors , WiFi connectivity for sensors.

Pros : Successful monitoring of area

Cons: Network coverage for sensors can't be reached.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS `J&P`

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

To check and alert the humidity, temperature, infrared radiation and air quality.

9. PROBLEM ROOT CAUSE `RC`

What is the real reason that this problem exists?
What is the back story behind the need to do this job?
i.e. customers have to do it because of the change in regulations.

It is important to note the employees safety. Working in hazardous area in industries are highly risk. Therefore, this project helps employee to know about their environment.

7. BEHAVIOUR `BE`

What does your customer do to address the problem and get the 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)

The employees have a wearable watch where they can see the required or specified details and act safely according to it.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS `TR`

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

Successful execution of our solution will make even other industry to implement this solution.

4. EMOTIONS: BEFORE / AFTER `EM`

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 & design.

It will be easy for employees to identify or to know their environment.

10. YOUR SOLUTION `SL`

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

We are using IOT along with cloud to make th services real time and faster.

The proposed system is installed in a particular locality where there is acute air pollution.

The level of each hazardous pollutant is monitored at periodic intervals..

Thus the quality of air in that area can be understood by the public by viewing the concentration of the gases in both the numerical and graphical format.

8. CHANNELS of BEHAVIOUR `CH`

8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7

8.2 OFFLINE
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

All the information will be stored in cloud, so the employees can see the cloud storage or mobile application for referring the details of surroundings.

Eliminate hazards and control risks by implementing safety precautions in confined spaces with
*Risk assessment *Entry procedures
*Protective equipment *Rescue plan.

Identify strong TR & EM