Project Title: Emerging Methods for Early Detection of Forest Fires

Project Design Phase-I - Solution Fit Template

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Who is your customer?

A person who is member of disaster management.

6. CUSTOMER CONSTRAINTS C

What constraints prevent your customers from taking action or limit their choices of solution?

- Increasing cost.
- Fluctuating demand.

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

- Remote sensing.
- Easy and quick collection of data.
- Distortions may occur in an image.

Explore AS, differentiate

Focus on J&P, tap into BE,

2. JOBS-TO-BE-DONE / PROBLEMS

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

- Causes imbalances in nature.
- Causes endangers biodiversity by reducing faunal and floral wealth.
- Global warming.

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?

- High atmospheric temperature.
- Dryness.

7. BEHAVIOUR BE

What does your customer do to address the problem and get the job done?

- Using sensors to address the fire before they occur and control them efficiently.

Focus on J&P, tap into BE,

3. TRIGGERS

TR

What triggers customers to act?

- To detect forest fires quickly and efficiently.

4. EMOTIONS: BEFORE / AFTER

EM

How do customers feel when they face a problem or a job and afterwards?

- Ensuring firefighter safety and Enhancing fire department communication.
- Make sure that fire has been controlled thoroughly.

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.

- A feature-based AI algorithm uses an artificial neural network to scan the images for the telltale heat and smoke signature of wildfires
- Sensors, robots, and satellites, are all being used to detect, impede, and douse fires.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

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

- Monitoring the condition of forest through the sensors.

8.2 OFFLINE

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

- - Take action according to the information they got.