

# Project design phase – I

## Proposed solution fit template

Date	1 october 2022
Team ID	PNT2022TMID48153
Project Name	Emerging methods for early detection of forest fire
Maximum Marks	2 Marks

**Early detection of forest fire**

**Problem-Solution fit canvas 2.0**

Purpose / Vision

**Define CSs, fit into CC**

**1. CUSTOMER SEGMENT(S)**  
Who is your customer?  
1. Forest officer who wants to find forest fire at the earliest.  
2. Tribes who lives in the forest.  
3. People who lives near the forest.

**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.  
1. To detect forest fire in advance.  
2. To monitor wide area of forest.  
3. To prevent terrible forest fire.

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

**3. TRIGGERS**  
What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.  
**Fire causes destruction of many valuable species and harmful to human lives.**

**4. EMOTIONS: BEFORE / AFTER**  
How do customers feel when they face a problem or a job and afterwards?  
**Customer feels frustrated and insecure because of fire and after the prediction they can feel safe.**

**Explore AS, differentiate**

**6. CUSTOMER**  
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)  
**Forest is a vast area the costumer himself cannot monitor those areas.**

**9. PROBLEM ROOT CAUSE**  
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.  
1. The main reason for fire are natural causes such as lightning and man made causes like naked flame, cigarettes or electric spark etc.  
2. The customer who lives near the forest loses his family because of fire so he wants to detect the fire at the earliest to save many more families.

**10. YOUR SOLUTION**  
If you are working on an existing business, write down your current solution first, ill 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 going to test a CNN(Convolutional neural network) model which collects the data from sensors, cameras and drones and gives it to the model and predicts the fire before it happens. It also gives the exact location of fire and to reduce the false positives of fire detection.**

**Identify strong TR & EM**

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

**Extract on line & offline CH of BE**

**CS**

**CC**

**AS**

**J&P**

**RC**

**BE**

**TR**

**SL**

**CH**

**EM**

**CH**

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