Project Design Phase-I Problem - Solution Fit Template

Date	21 October 2022
Team ID	PNT2022TMID35102
Project Name	Project – EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE
Maximum Marks Project Title: Emerging Methods for early detection of forest fire Project	2 Marks Design Phase-1 - Solution Fit Template Team ID: PNT2022TMID15454

1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS Explore AS 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. AS Which solutions are available to the customers when they face the problem CS Who is your customer? i.e. working parents of 0-5 y.o. kids 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 fit into CC Climatic changes and the greenhouses gases arethe reasons behind the destruction. Along with this the human factor to greedily use resources also play a vital reason for the forest fires. The forest resources which plays a vital role in sustaining lives on the earth, therefore to preserve them from unexpected outbreak of fire and smoke. The forest Existing systems uses optical sensors for detecting forest fires. As fire is detected the sensors management team do need this device in fire prone areas. sends signal to the office of forest management. Among with that satellites are used to detect IR rays spotted in forest lands. 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE 7. BEHAVIOUR Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. 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 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. associated: customers spend free time on volunteering work (i.e. Greenpeace) The main problem that exists is weather and climate by releasing large number of carbon dioxide, carbon monoxide and fine particulate matter into the atmosphere. The reasons possible are: 1. Due to natural causes- Lightning 2. Man-made causes- Naked flame, cigarette, electric spark When fire is detected the system which is implemented to monitor the forests sets the alarm to ring, that is it gives the signal through which fire management team and the forest committee tries Thus, contineous care and to call off the fire. Thus, the aim is to monitoring is needed to recognize the fire as early as possible preserve natural resources to to prevent spread of fire which will save lives cause further damage to control.

3. TRIGGERS



their neighbor installing solar panels, reading about a more efficient solution in

The unconsious behavior towards burned cigarette left, chances of leaving the campfire remained burnt and electric supply being disrupted

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 & design.

Wildfires can cause lot of stress since the factor that influence their direction and intensity are unpredictable and can change at anytime. People who have lived through wildfires can face dramatic mood swings, anxiety and mood-swings.

10. YOUR SOLUTION



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

To minimize these loses, we have proposed a solution to detect early detection of forest fires by using CCTV camera surveillance, which can detect fire in indoor and outdoor activities. Thus instant alerts has to be sent to the forest management office so that they can take further actions to disrupt the damage caused by the fire.

8. CHANNELS of BEHAVIOUR

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.

Online Detection: Thus the chatbot or the API canconnect through internet to feed you with the current status of the forest.

Offline Detection: Thus, the forest management can send notice to the nearby residential areas or the media can bring the awareness through news, radio.