Project Design Phase-I Problem Solution Fit Template

Date	18 September 2022
Team ID	PNT2022TMID06660
Project Name	Project – EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES
Maximum Marks	2 Marks

Project Title: Emerging Methods for early detection of forest fire

Project Design Phase-I - Solution Fit Template

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Define CS, Explore AS, differentiate 1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS Who is your customer? i.e. working parents of 0-5 y.o. kids CC Which solutions are available to the AS CS customers when they face the problem 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. or need to get the job done? What have they tried in the past? What pros & cons do these fit into CC solutions have? i.e. pen and paper is an alternative to digital notetaking 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 Existing systems uses optical vital role in sustaining lives on the earth, therefore to preserve them from unexpected outbreak of fire and smoke. The forest sensors for detecting forest fires. As fire is detected the sensors sends signal to the office of forest management team do need this device in fire prone areas. 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 RC What does your customer do to address the problem and get the job done? Which jobs-to-be-done (or problems) do you J&P What is the real reason that this problem address for your customers? There could be exists? What is the back story behind the i.e. directly related; find the right solar panel more than one; explore different sides. need to do this job?i.e. customers have to installer, calculate usage and benefits; indirectly 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 The reasons possible are: When fire is detected the system 1. Due to natural causes- Lightning which is implemented to monitor the releasing large number of carbon 2. Man-made causes- Naked flame, forests sets the alarm to ring, that is dioxide, carbon monoxide and fine cigarette, electric spark particulate matter into the it gives the signal through which fire atmosphere. 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



gers customers to act? i.e. seeing

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 currentsolution first, fill in the canvas, and checkhow much it fits reality, and checkhow 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 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 cansend notice to the nearby residential areas or the media can bring the awareness through news, radio.