BE

CH

CS 1. CUSTOMER SEGMENT(S)

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

> People who live close to fire prone areas might also want access to the data and get to know when a forest

fire is likely to endanger them in order to be more prepared

According to professionals, people would like to know more about what impacts them especially in high risk areas

J&P

TR

EM

6. CUSTOMER CONSTRAINTS

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

> Climatic changes and the greenhouse effect are some of the consequences of such destruction. Interestingly, a higher percentage of forest fires occur due to human activities.

Due to the weather changes the devices cannot predict the cause accurately due to poor network connection. So it may leads to danger.

5. AVAILABLE SOLUTIONS

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

> Existing detection methods, such as satellite and optical systems, can cover large areas; satellite systems identify infrared signatures, while optical systems look for smoke plumes.

Camera Based Techniques. Multi-modal/Multi-sensor fire analysis. Pyro-electric Infrared Sensors for Flame Detection. Large scale fire experiments.

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.

only way to prevent forets fires is by creating awareness among locals who go inside forest for funand carelessly throw a lit ciggrette or set up camp

The increasing frequency and severity of wildfires pose a growing threat to biodiversity globally. Individuals, companies and public authorities bear great economic costs due to fires.

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.

> They pose a threat not only to the forest wealth but also to the entire regime to fauna and flora seriously disturbing the bio-diversity and the ecology and environment of a region.

Wildfires can disrupt transportation ,Loss of property, crops, resources ,animalsand people's. Loss of biodiversity.

7. BEHAVIOUR

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)

> Fire behavior can be characterized as the manner in which a fire reacts to the interaction of fuel. weather, and topography the "fire behavior triangle".

The four main parameters used to describe fire behavior include: *rate of spread, *fireline intensity, *flame length, *flame height.

3. TRIGGERS

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

It turns out though, that viewing the solar modules in action also plays a significant role in swaying homeowners into making the choice to generate residential solar power

It takes a good deal of work and regulations to keep suburban communities looking picture rfect and arrays of shiny solar anels don`t always fit the vision homeworkers have for their neighbourhoods

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.

People who are involved directly in disasters such as wildfires or exposed to the effects of disasters may experience lots of negative emotions.

Wildfires threaten lives directly, and wildfire smoke can affect us all. They spread air pollution not only nearby, but thousands of miles away causing breathing difficulties in even healthy

10. YOUR SOLUTION

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.

To minimize these losses, early detection of fire and an autonomous response are important and helpful to disaster management systems.

Therefore, in this article, we propose an early fire detection framework using finetuned convolutional neural networks for CCTV

surveillance cameras, which can detect fire in varying indoor and outdoor environments

8. CHANNELS of BEHAVIOUR

8.1 ONLINE

SL

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

Helps to notify the data preprocessing information.

Connects to the source and to alarm the surrounding security

8.2 OFFLINE

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

You are in offlineapplication manpower detection

can be done.

Fire extinguishers and Drone water sprayers



Problem-Solution it canvas is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license Created by Daria Nepriakhina / Amaltama.com

