PROJET TITLE: EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

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SCENARIO Browsing, booking, attending, and rating a local city tour Steps typically experience? Interactions

Entice How does someone initially become aware of this process?

Enter What do people experience as they begin the process?

Consumers have

accepted the product

in the market and

customers are

beinning to truly buy

Engage

In the core moments in the process, what happens?

Exit

What do people typically experience as the process finishes?

Extend

What happens after the experience is over?

What does the person (or group)

A source of ignition is anything that has the potential to start

Keep tracking of climate changes Market for the product is expanding and competition begins developing

To avoid risk for animals

Detecting fire and identify where it

Fire has spread over much if not all the available fuel. Temperature reach their peak

Resulting in heat damage Oxygen is consumed rapidly

usually the longest stage of a fire.Putting an end to the fire.

The characterized a significant decrease in oxygen or Fuel

What interactions do they have at each step along the way?

- People: Who do they see or talk to?
- Places: Where are they?
- Things: What digital touchpoints or physical objects would they use?

Forest Officer

Forest Area

Web Camera

Interacxt with video frame Camera for collecting Images

Identify the Fire

Detect Forest Fire

After detect forest fire, Forest fires will be extinguished

Goals & motivations

At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")

Fire removes low growing underbrush cleans the forest

Opens it up to sunlight Nourishes the soil

Gain Love towards nature

determine the over storey of coniferous composition besides developing a natural space among the stands

Fire frequencies

It plays a role in recycling nutrients from the ground - layer vegetation and litter to the over storey trees

Thereby counter acting the infertile subtracts and arrested decay.

Positive moments

What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

More precise It control spark timing It improve engine efficiency It improve efficiency and performance

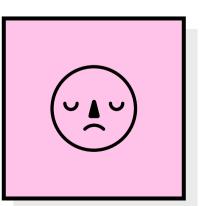
floor of debris

The major factor that influence the fire growth are fuel arrangement colling height, length / width ratio, room installation size and location of openings, heating ventilation conditioning

Detection of fire

They kill harmful They clear away diseased trees.

They Make way for new trees. The ashes add nutrients to the soil



Negative moments

What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

No matter the cause wildfires still require three components to ignite and eventually spread fuel, heat, and oxygen. These components referred to as the fire triangle

Wildfire emit Co2 and other green house gases

These also lead to a deterioration of the air quality, and loss of property, crops, resources, animals, and people is he biggest factor contributing to

Fire detection systems has many limitations such as the limited amount of energy, the

The short range of communication and limited computations, the complexity of ML algorithms when executing on sensor nodes

Areas of opportunity

How might we make each step better? What ideas do we have? What have others suggested?

static Cameras fixed on the ground **Unmanned Aerial** Vehicles (UAVs)