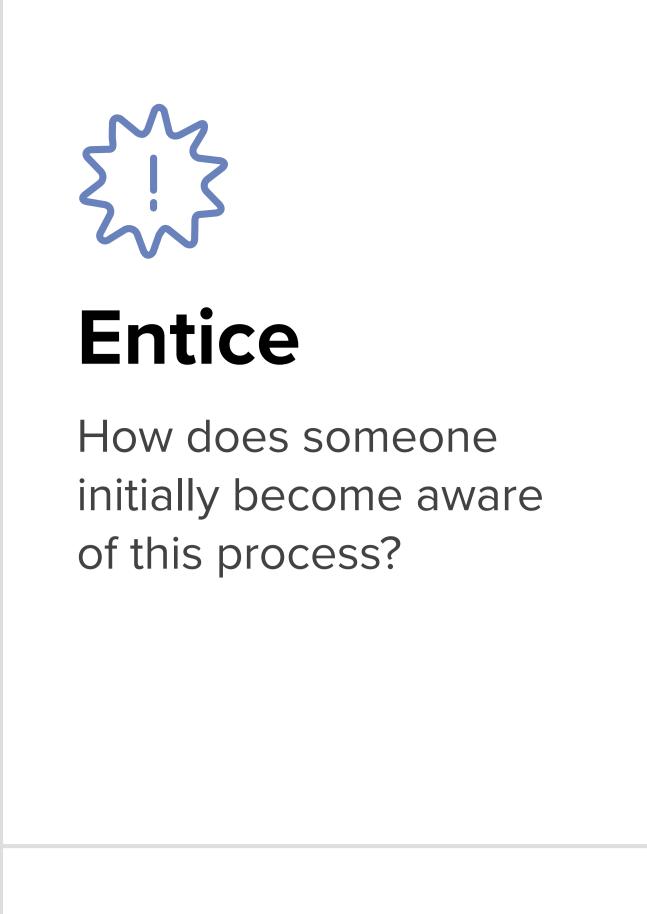
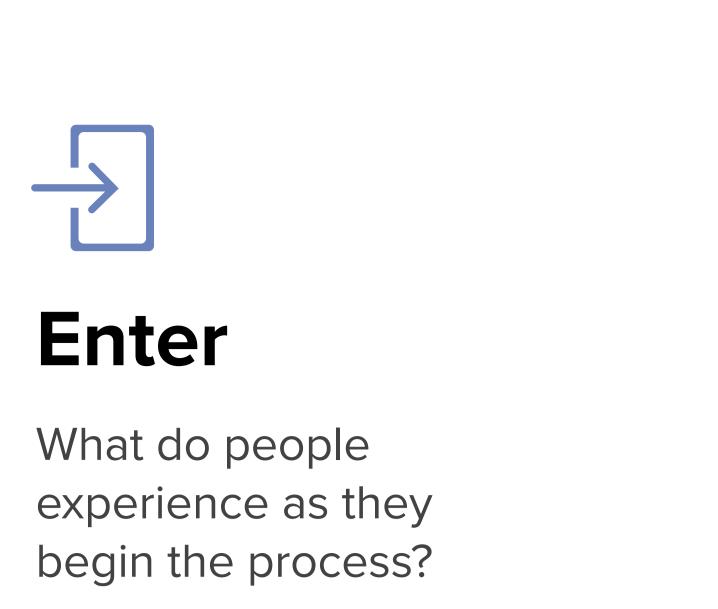
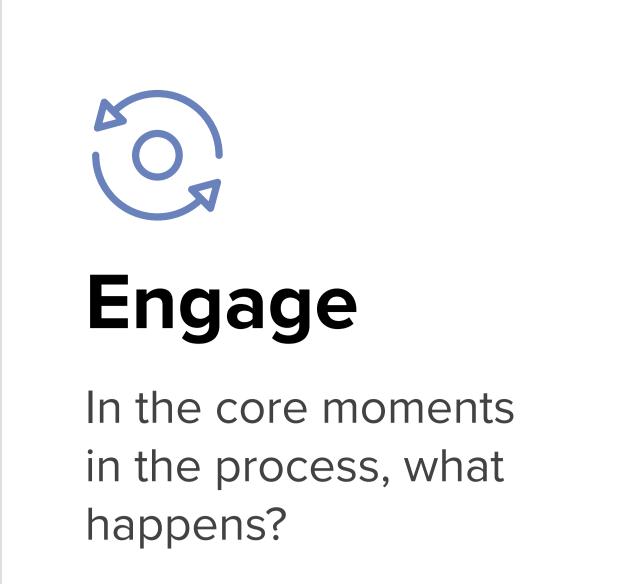
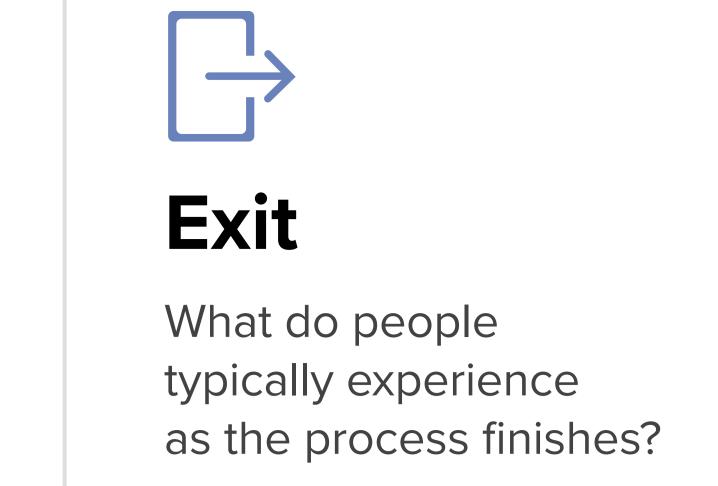
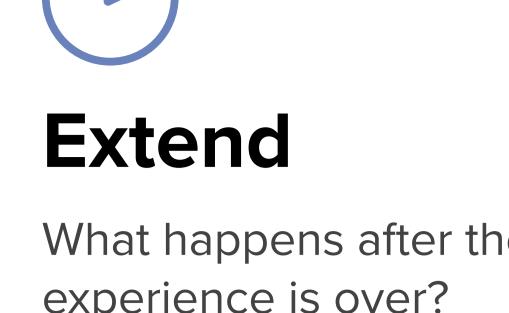
Emerging methods for early detection of forest fire **Steps** typically experience? Interactions Places: Where are they? **Positive moments**











What happens after the experience is over?

What does the person (or group)

Tracks climate changes

Source of ignition that can start a fire consumers have accepted the product in the market and customers are beginning to truly buy

market for the product is expanding and competition begins developing.

Detect the location where the fire started

High Temperature is reached

Oxygen is consumed

The fire is extinguished A notable decrease in oxygen is seen

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

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

First Responders (Officers, doctors, fire fighters)

Forest

cameras

Images from the cameras are collected

Location of the fire is identified

Detect the fire

after detection of fire it is put to an end

Goals & motivations

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

Motivates them to protect wildlife

fire cleans the debris on the forest floor

Nourishes the soil

Gains love for the flora and fauna

Fire frequencies determine the over story coniferous composition

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

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

Improves efficiency and performance

It controls spark timing

Fuel arrangement influences the fire growth

Detection of fire pattern

Kills harmful insects

Clears dead trees

Ashes add nutrients to the new trees



Negative moments

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

fuel, heat and oxygen causes the fire to spread

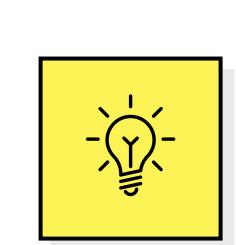
wildfire emits harmful gases and pollutes air

Wildfires can disrupt transportation, communications, power and gas services, and

They cause deterioration of property, crops, resources, animals and

Human carelessness remains the major factor of cause for wildfires

Fire detection systems has many limitations, such as energy required communication and limited computations



Areas of opportunity

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

Use of UAVs

Use of high resolution cameras

water supply

the air quality, and loss of people

the limited amount of energy, the for data processing, the short range of