Team ID: PNT2022TMID51601

Define CS, fit into

1. CUSTOMER SEGMENT(S)

Detection Of Forest Fires

Project Title: Emerging Method For Early



Forest officer Common people

6. CUSTOMER CONSTRAINTS



Satellites allow for detecting and monitoring a range of fires, providing information about the location, duration, size, temperature, and power output of those fires that would otherwise be unavailable. Satellite data is also critical for observing and monitoring smoke from the fires

Project Design Phase-I - Solution Fit Template

5. AVAILABLE SOLUTIONS



Explore AS, differentiate

Avoid burning wastes around dry grass. Obey local laws regarding open fires, including campfires

Have firefighting tools nearby and handy. Use fire resistant roofing materials. undertake technical checkups regularly. Monitoring weather analytics, monitoring thermal anomalies, monitoring water stress and temperature rises.

Satellite remote sensing offers a useful tool for forest fire detection, monitoring, management and damage assessment. During a fire event, active fires can be detected by detecting the heat, light and smoke plumes emitted from the fires. This application uses real-time satellite data to

detect and monitor forest fires (sending alerts to mobile devices), and understand fire patterns.

9. PROBLEM ROOT CAUSE



Forest fires cause lots of damage, some of them are – loss of wildlife habitat, extinction of plants and animals, destroys the nutrient rich top soil, reduction in forest cover, loss of valuable timber resources, ozone layer depletion, loss of livelihood for tribal people and poor people, increase in global warming..

7. BEHAVIOUR



When the people don't have knowledge about forest fire

3. TRIGGERS TR 10. YOUR SOLUTION SL 8.CHANNELS of BEHAVIOUR Human-caused fires result from For this problem we use image processing and **ONLINE:** fire alert campfires left unattended, the burning of video analysis so by using satellite image sensor debris, equipment use and malfunctions, processing we can able to find the fire at the negligently discarded cigarettes, and **OFFLINE:** Fire awareness program intentional acts of arson. early stage and stop spreading fire in the forest. 4. EMOTIONS: BEFORE / AFTER EM This model is mainly build by using CNN and machine learningand deep learning BEFORE: unsafe and worries about lives and

belongings

AFTER: safety and relief

CH