PROBLEM – SOLUTION FIT

Purpose / Vision: EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE

Define CS, fit into

CUSTOMER SEGMENT(S)

This project can be installed by all the central and state governments in order to detect the wildfires or forest fires rapidly.

. CUSTOMER CONSTRAINTS

The primary constraint on the fire detection system is to detect a developing fire prior to belt ignition or as quickly as possible thereafter before the onset of rapid flames spread can begin.

AVAILABLE SOLUTIONS

There are many solutions existed such as thermo-cam imaging, satellite imaging and IOT based systems and using sensors of many types etc...

Explore AS, differentiate

focus on J&P, tap into

JOBS-TO-BE-DONE / PROBLEMS

The existing solutions are less efficient and consuming high power and low accuracy along with latency issues and these problems should be resolved.

PROBLEM ROOT CAUSE

Forest fires are the one of the random natural disaster that is too hard to identify even with the existing state of the art technology. The fact that more than 20% of complete world CO2 emissions comes from forest fires.

BEHAVIOUR

The behaviour refers to the manner in which fuels ignites, flame develops and fire spreads. Once a fire starts it continue burning only if heat, oxygen and more fuels are present.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM0

EMOTIONS: BEFORE / AFTER

BEFORE : encroachment ,loss of diversity, economic imbalance, decreased wildlife, affliction.

AFTER : Forest surveillance systems can be used to monitor the forest areas so that we can prevent the people and wild lives and economic damage.

TRIGGERS :

Saving wildlife
Area detection
Saving human lives
Assessing the environmental conditions

SL

YOUR SOLUTION

Forest surveillance using some sensors like fire, temperature, co2 sensors, humidity sensors and many AI/ML and IOT derived solutions can be used to monitor the forest areas and they can alert the forest department if there is any symptoms of forest fire or any other suspicious activities