

Project Design Phase-I - Solution Fit

Project Title: Emerging methods for early detection of forest fires

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Define CS, fit into CC

1.COSTOMER SEGMENT

CS

Forest plays an important role in the earth. So to prevent from the unexpected fires. The local authorities of fire must have this device in fire hotspot areas and monitoring it continuously.

6. CUSTOMER CONSTRAINTS

CC

Climate changes and global warming are the main reason for forest fires. Humans also play an essential role in this forest fire disaster.

5. AVAILABLE SOLUTIONS

AS

Several methods have been implemented to detect forest fires such as optical sensor, watchtowers, digital camera based methods. The main drawbacks are inefficiency, latency, accuracy.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

Permanent monitoring is going to be done. The problem is weather and climate. High level of global warming causes forest fire. Forest fire leads to air pollution, respiratory problems and commercial imbalance economy.

9. PROBLEM ROOT CAUSE

RC

Man made activities causes forest fire such as left cigarette, campfire, electric sparks, Natural causes -lightning which makes trespass on fire.

7. BEHAVIOUR

BE

When the fire is detected the system sends an early warning to the local forest authority then the forest management team are going to off the forest fire as soon as possible.

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

3. TRIGGERS

Unaware of leaving the campfire and leaving the cigarettes in the forest leads forest fire. It can destroy the vast area with the little bit fire.

TR

4. EMOTIONS: BEFORE / AFTER

The wild animals may lost their habitat. Due to forest fire our resources may accomblished.it leads air pollution. People who depends forest for living can face anxiety and can lost their sufficient life.

EM

10. YOUR SOLUTION

To reduce these losses, we have a solution to detect the forest fire by using camera. which can detect the fire

8.CHANNELS OF BEHAVIOUR

Can detect the forest fire from their current location and send the warning message to the local forest authority It can be done in online mode.

In offline mode call send to smart phone and indicate the fire area.