Project Title: **Project Design Phase-I - Solution Fit Template** **Team ID:** PNT2022TMID53336

Define CS, fit into CC

CS

1.Customer Segment(S)

- Forest Officials
- Wildlife Activists
- People who live close to forst

CC

6. CUSTOMER CONSTRAINTS

It is difficult to cover an entire forest and to predict fire in a traditional way of overwatch by forest rangers. The budget for manual labor is way too high

AS

5. AVAILABLE SOLUTIONS

Outpost across the forest or forest cameras spread across the forest is used to detect forest fires

Explore AS, differentiate

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

J&P

2.JOBS-TO-BE-DONE / PROBLEMS

Satellite Imaging can help covering over a wide area of trees in a forest to detect fires by the enormous amount of light and heat it produces and a message can be sent to fire fighters via an alert or a message

RC

9.PROBLEM ROOT CAUSE

- Improper discarding of cigarettes
- Lightning
- High wind contributes in spreading of small wires

BE

7. BEHAVIOUR
Customers can't find a perfect solution. So, they prefer Artificial Intelligence.

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

Identify strong TR & EM

3. TRIGGERS TR

Loss of natural vegetation and destruction of fauna and flora

4. EMOTIONS: BEFORE / AFTER EM

Before : Hoping and praying that forest fire never comes

After: Assurance on the safety of flora and fauna

10. YOUR SOLUTION SL

OpenCV method can be used to monitor videos which can be collected from Satellite and Convolutional Neural Network can be used to monitor each frame in the video as an image and predict if the forest fires will happen or not.

8.CHANNELS of BEHAVIOUR CH

ONLINE : Sensors to detect forest fires placed on random trees throughout the forests

OFFLINE : Awareness Camp and events should be conducted

Identify strong TR & EM