# Project Design Phase-I - Solution Fit Template

**Project Title:** Emerging Methods for Early Detection of Forest Fires          **Team ID:** PNT2022TMID05673

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|---|---|---|
| *Define CS, fit into CC* | | *Explore AS, differentiate* |

## 1. CUSTOMER SEGMENT(S) — CS

- Forest Officers
- Research people
- Environmentalist

## 6. CUSTOMER CONSTRAINTS — CC

- Large-scale forest fires.
- Ground measurements is time consuming.

## 5. AVAILABLE SOLUTIONS — AS

The existing systems are based on

- Ground level meteorological data
- Ground levels images of forests

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

## 2. JOBS-TO-BE-DONE/PROBLEM — J&P

- Providing a reliable deep learning model for prediction.

## 9. PROBLEM ROOT CAUSE — RC

- Fire ignitions
- Expansion of forests
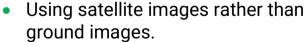- Climatic changes

## 7. BEHAVIOUR — BE

- Customers spends a lot of time and effort to forecast the forest fire.

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

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*Identify strong TR & EM*

## 3. TRIGGERS — TR

- Save forest for future.
- Cost of firefighting.

## 4. EMOTIONS: BEFORE / AFTER — EM

- Clueless => Confident (preventing wildlife from fire)

## 10. YOUR SOLUTION — SL

- Using satellite images rather than ground images.
- Prediction for both photos and videos.
- Alert system via SMS and E-mail.
- Compatible with all devices.

## 8. CHANNELS of BEHAVIOUR — CH

**8.1 ONLINE**
Using websites based on ground data.

**8.2 OFFLINE**
Using camera and sensors.

*Extract online & offline CH of BE*