Project Title: Emerging Methods for Early Detection of Forest Fires **Project Design Phase-I - Solution Fit Template** **Team ID: PNT2002TMID13753**

Define CS, fit into CC

CS

1. Customeí Segment(S)

- Foíest Officials
- Wildlife Activists
- People who live close to foíst

CC

6. CUSTOMER CONSTRAINTS

It is difficult to coveí an entiíe foíest and to píedict fiíe in a tíaditional way of oveíwatchby foíest íangeís. I'he budget foí manual laboí is way too high

AS

5. AVAILABLE SOLUI'IONS

Outpost acíoss the foíest oí foíest cameías spíead acíoss the foíest is usedto detect foíest fiíes

Explore AS, differentiate

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

J&P

2.JOBS-I'O-BE-DONE / PROBLEMS

Satellite Imaging can help coveíing oveí a wide aíea of tíees in a foíest to detect fiíes by the enoímous amount of light andheat it píoduces and a message can be sent to fiíe fighteís via an aleít oí a message

RC

9. PROBLEM ROOI' CAUSE

- Impíopeí discaíding of cigaíettes
- Lightning
- High wind contíibutes in spíeading of small wiíes

BE

7. BEHAVIOUR
Customeís can't find a peífect solution. So, they píefeí AítificialIntelligence.

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

Identify strong TR & EM

3. I'RIGGERS I'R

Loss of natuíal vegetation and destíuction of fauna and floía

4. EMOI'IONS: BEÏORE / AÏI'ER EM

Befoíe : Hoping and píaying that foíest fiíe neveí comes

Afteí: Assuíance on the safety of floía and fauna

10. YOUR SOLUI'ION SL

OpenCV method can be used to monitoí videos which can be collected fíom Satellite and Convolutional Neuíal Netwoík can be used to monitoí each fíame in the video as an image andpíedict if the foíest fiíes will happen oí not.

8.CHANNELS of BEHAVIOUR CH

ONLINE : Sensoís to detect foíest fiíes placed on íandom tíees thíoughout the foíests

OFFLINE : Awaíeness Camp and events should be conducted

Identify strong TR & EM