Problem-Solution fit canvas 2.0

Project Design Phase-I-Solution Fit template

PNT2022TMID40383

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

Our Customers are Members and Officials of forest Reserves and People Who Go On Trips

5. CUSTOMER CONSTRAINTS — CC

One of The Constraints Here is the Usage Of Resources for Human Consumption That leads to Forest Fire Some UnExpected Situations. Also,the UV rays at higher level ,GreenHouse Gas Emission Etc.., May Cause Forest Fire.

8. AVAILABLE SOLUTIONS — AS

Existing Measures that have been takenare use of Optimal Sensors , Avoiding Heating of Spark Producing Equipment,Providing Fire Extinguishing Equipment for Wild Fire Prevention

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

The MainEffect is that wildlife animals get affected in a wide range due to Emission of Co2 and Causes Health Problems For Humans too.

The Usage of Satelite data will Provide more reliable and Vast data on Which our Prediction model can Perform Smoke Detection Using Differen AI tools

6. PROBLEM ROOT CAUSE — RC

The Primary Root Cause is The Emission of CO2 Caused due to Some Netural calamities and man-made Causes like naked and Electric Sparks.

9. BEHAVIOUR — BE

Check grounds For hot Spots. Features like Alarm Can be Set Which with Help of Sensors can Detect it Early and the Forest Department Preventing Excessive Damage.

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

Identify strong TR & EM

3. TRIGGERS — TR

Dry lands may Arise Problem of Causing fire in that Area resulting in Greater Effects(in case of thunder & lightning or Sparks left by human,for e.g..,Cigarettes,camp fires.)

4. EMOTIONS: BEFORE / AFTER — EM

Before:
Before visually observing.it can be smelled(since smoke has a distinct smell and taste).
Creation of Densible Space From Flammable vegetation and Materials.
After:
It may be difficult to concentrateor make decisions or become more Easily Confused(sleeping & eating patterns may be distrupted).)
Use caution When re-entering a bunded Area

7. YOUR SOLUTION — SL

Our Solution is to Use AI and Neural Networks Such as CNN to develop an accurate model for prediction and use Computer Vision Techniques and Image Processing and Video to Perform Real Time Detection and Prediction .The usage of Satellite data will Provide more Reliable and Vast Data on Which our Prediction Model can be Built.

10. CHANNELS of BEHAVIOUR — CH

From a datasaet from the data collected to Perform Analysis on Relatable areas that are Flamable in Forest.

11. OFFLINE CHANNELS

Detected results can be Sent/Informed to froest department so that they can take action measures as early as possible

Extract online & offline CH of BE

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