

Project Design Phase-I - Solution Fit
Template

Project Title:

Team ID: PNT2022TMID18733

Define CS, fit into CC

CUSTOMER SEGMENT(S)

CS

Customers are NDRF employees and members of the general public who have been impacted by disaster.

CUSTOMER CONSTRAINTS

CC

To prevent property damage, structural damage to construction sites, and utility outages, precautions should be taken. Making communities and governments better, more resilient and prepared to respond to disasters when faced with such problems.

AVAILABLE SOLUTIONS

AS

Nature based solutions such as conserving forests, wetlands and coral reefs, can help communities prepare for, cope with, and recover from disasters, including slow onset events such as drought. Water infrastructure should be perfected to ensure the safety of controlling floods and discharging water. In addition, related mechanisms and system should be improved.

Explore AS, differentiate

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

JOBS-TO-BE-DONE / PROBLEMS

J&P

These common elements allow you to prepare for and protect yourself from disaster. Emergency managers think of disasters as recurring events with four phases:

- Mitigation
- Preparedness
- Response
- Recovery

PROBLEM ROOT CAUSE

RC

Different disasters occur due to various causes. Causes for such calamities can be contributed to deforestation, soil erosion, and pollution. The major causes of catastrophic disasters are natural phenomena occurring in the earth's crust as well as on the surface

BEHAVIOUR

BE

Intense or unpredictable feelings. People may be anxious, nervous, overwhelmed, or grief stricken. Changes to thoughts and behaviour patterns. Sensitivity to environmental factors. Stress related physical symptoms.

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

TRIGGERS

Natural disasters, such as earthquakes, floods, storms, etc., can damage chemical plants or oil and gas pipelines, causing the release of hazardous materials

EMOTIONS: BEFORE / AFTER

Before the disaster, people will lead their life in a very peaceful manner. They do their routines. They will work and earn money. After the disaster, people's get stressed, because some may lost their properties, their families etc., Feelings of fear, anger and change in their lifestyle, difficulty in sleeping and they will be very hard in accepting the reality.

PROBLEM ROOT CAUSE

Natural disasters not only disturb the human ecological system but also destroy the properties and critical infrastructures of human societies and even lead to permanent change in the ecosystem. To tackle this problem, we developed a multilayered deep convolutional neural network model that classifies the natural disaster and tells the intensity of disaster of natural The model uses an integrated webcam to capture the video frame and the video frame is compared with the Pre-trained model and the type of disaster is identified and showcased on the OpenCV window

CHANNELS of BEHAVIOUR

When severe disaster occurs, people try to communicate through internet. The Internet can also link agencies with volunteers and victims. Ultimately, stronger agency connections can result in more timely response and integrated service when disaster strikes.

Stay in a safe area or shelter during a natural disaster. Listen to your portable radio for important updates and instructions from local authorities, If power is lost, use a generator with caution. Do not use the elevators. The electricity may go out, and the sprinkler systems may come on.