Project Design Phase-I
Problem – Solution Fit Template

Date	30 September 2022
Team ID	PNT2022TMID40422
Project Name	Natural Disasters Intensity Analysis and Classification Using Artificial Intelligence
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ❑ Solve complex problems in a way that fits the state of your customers.
- ❑ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- ❑ Sharpen your communication and marketing strategy with the right triggers and messaging.
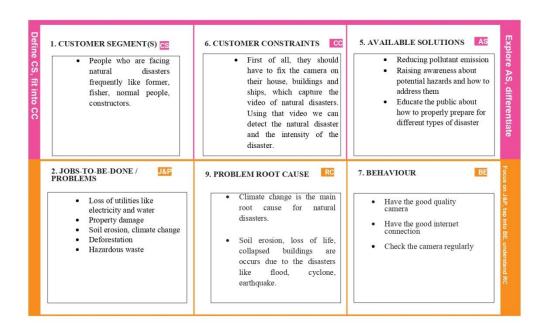- ❑ Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- ❑ **Understand the existing situation in order to improve it for your target group.**

Template:

Project Design Phase-I - Solution Fit Template

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Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS	6. CUSTOMER CONSTRAINTS CC	5. AVAILABLE SOLUTIONS AS	Explore AS, differentiate
	• People who are facing natural disasters frequently like former, fisher, normal people, constructors.	• First of all, they should have to fix the camera on their house, buildings and ships, which capture the video of natural disasters. Using that video we can detect the natural disaster and the intensity of the disaster.	• Reducing pollutant emission • Raising awareness about potential hazards and how to address them • Educate the public about how to properly prepare for different types of disaster	
	2. JOBS-TO-BE-DONE / PROBLEMS J&P	**9. PROBLEM ROOT CAUSE** RC	**7. BEHAVIOUR** BE	Focus on J&P, tap into BE, understand RC
	• Loss of utilities like electricity and water • Property damage • Soil erosion, climate change • Deforestation • Hazardous waste	• Climate change is the main root cause for natural disasters. • Soil erosion, loss of life, collapsed buildings are occurs due to the disasters like flood, cyclone, earthquake.	• Have the good quality camera • Have the good internet connection • Check the camera regularly	

3. TRIGGERS

- Government needs to provide a Rescue services
- People always need to be aware about particular disasters intensity level, then can prevent themselves from most hazardous disasters.

4. EMOTIONS: BEFORE / AFTER

BEFORE: Difficulty to detect and analyze the disasters and intensity level of such disasters, difficulty to aware about disasters in early stage.

AFTER: Any type of disasters and their intensity level can easily detect and analyzed, providing awareness to people in earlier stage of disasters.

10. YOUR SOLUTION

- Developing an AI model for detect and analysis the intensity of natural disasters. Using the data set collected from the previous disaster.

8. CHANNELS OF BEHAVIOUR

8.1 **ONLINE**

- To get the Videos and images from the camera to the application.

8.2 **OFFLINE**

- Checking the camera regularly