

Project Design Phase-I

Problem – Solution Fit Template

Date	7 November 2022
Team ID	PNT2022TMID42615
Project Name	Natural Disaster 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:

Define CS, fit into CC	1. CUSTOMER SEGMENT(S)	<ul style="list-style-type: none"> People who live in disaster prone area Scientists like Seismologist and meteorologist 	2. CUSTOMER CONSTRAINTS	<ul style="list-style-type: none"> Measures to avoid property damage, loss of utilities, etc. Efforts and necessary preparations for better response to disaster and resilience 	3. AVAILABLE SOLUTIONS	<ul style="list-style-type: none"> Nature based solutions like conserving forests, coral reefs, etc. Water infrastructure engineered in accordance with mechanisms 	Explore AS, differentiate	
	Focus on J&P, tap into BE, understand	4. JOBS-TO-BE-DONE / PROBLEMS	<p>Emergency managers think of disasters as recurring events with four phases: Mitigation; Preparedness; Response and Recovery</p>	5. PROBLEM ROOT CAUSE	<ul style="list-style-type: none"> Tectonic Plate movement Global warming Mining Ocean currents Instability in lower atmosphere 	6. BEHAVIOUR		<ul style="list-style-type: none"> Intense and unpredictable feelings. Changes to thoughts and behaviour patterns Gaining a better understanding of Do's and Don'ts in the event of a disaster
		Identify strong TR & EM	7. TRIGGERS	<ul style="list-style-type: none"> Occurrence of any Natural Disaster For people who live in disaster-prone locations, educating about necessary themes to increase existential issue 	8. YOUR SOLUTION	<p>To assist AI in tracking and foretelling the influence of diverse environmental conditions and their effects, we want to include reinforcement learning algorithms. This lets the rescue crew take quick and efficient action in addition to</p>		9. CHANNELS of BEHAVIOUR
10. EMOTIONS: BEFORE / AFTER	<p>EM</p> <p>Before: Calm; Organized lifestyle; Peaceful; Content</p> <p>After: Anxious; Grieving loss; Confused; Frustrated</p>							