

Project Design Phase-I

Problem – Solution Fit Template

Date	11 October 2022
Team ID	NT2022TMID16663
Project Name	Project – Emerging Methods for Early Detection of Forest Fires
Maximum Marks	

Problem – Solution Fit :

Problem-Solution fit canvas 2.0

Emerging Methods for Early Detection of Forest Fires

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS	6. CUSTOMER CONSTRAINTS CC	5. AVAILABLE SOLUTIONS AS	Explore AS, differentiate
	<ul style="list-style-type: none"> Forest Officers Natives inhabiting Forests Environmentalists Rescue Officers 	<ul style="list-style-type: none"> Lack of resources Lack of data Huge area to monitor 	<p>Mitigation after the occurrence of forest fires</p> <p>Pros:</p> <ul style="list-style-type: none"> Easy to identify <p>Cons:</p> <ul style="list-style-type: none"> Difficult to respond quickly Resources are lost in the delayed response time <p>Monitoring forests with sensors and cameras</p> <p>Pros:</p> <ul style="list-style-type: none"> Better early detection <p>Cons:</p> <ul style="list-style-type: none"> Still has a long delayed response time 	
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE / PROBLEMS J&P	9. PROBLEM ROOT CAUSE RC	7. BEHAVIOUR BE	
	<ul style="list-style-type: none"> Early detection of forest fires Securing a emergency exit path Ensuring inhabitants have a way to save themselves Trapping forest fires within a range of area Reduce loss of lives of both flora and fauna Create a fast, utility - having and resourceful response team 	<ul style="list-style-type: none"> Lack of methods to detect forest fires before they actually appear The delayed response time Lack of mitigation mechanisms Lack of safety measures for people and flora & fauna to protect themselves 		
Identify strong TR & EM	3. TRIGGERS TR	10. YOUR SOLUTION SL		Extract online & offline CH of BE
	<ul style="list-style-type: none"> Loss of lives Loss of flora and fauna Loss of huge areas of forests and natural resources 			
	4. EMOTIONS: BEFORE / AFTER EM	8. CHANNELS OF BEHAVIOUR CH		
	<ul style="list-style-type: none"> powerless / confident devastated / grateful 	<p>Emerging Methods for Early Detection of Forest Fires</p> <ul style="list-style-type: none"> Our solution uses Artificial Intelligence to predict and detect Forest Fires way ahead from the time it occurs. Our solution helps us to create mitigation maneuvers to rescue people, flora and fauna It helps the Forest Officers and the Rescue Team to be ready to encounter a disaster It prevents loss of lives 		<p>8.1 ONLINE</p> <ul style="list-style-type: none"> Move the forest officers to the location Move the rescue team to appropriate locations Mobilize medical teams <p>8.2 OFFLINE</p> <ul style="list-style-type: none"> Help people to exit the area of forest fire Reduce the range of forest fire Tend to injured people Rescue animals to escape this situation