

Project Design Phase-I

Problem – Solution Fit Template

Team ID	PNT2022TMID37523
Project Name	Project – Emerging Methods for Early Detection of Forest Fires
Maximum Marks	2 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 <ul style="list-style-type: none"> Forest Officers Natives inhabiting Forests Environmentalists Rescue Officers 	6. CUSTOMER CONSTRAINTS CC <ul style="list-style-type: none"> Lack of resources Lack of data Huge area to monitor 	5. AVAILABLE SOLUTIONS AS <p>Mitigation after the occurrence of forest fires</p> <p>Pros:</p> <ul style="list-style-type: none"> Easy to identify 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 <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 	9. PROBLEM ROOT CAUSE RC <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 <ul style="list-style-type: none"> Loss of lives Loss of flora and fauna Loss of huge areas of forests and natural resources 	10. YOUR SOLUTION SL <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
	4. EMOTIONS: BEFORE / AFTER EM <ul style="list-style-type: none"> powerless / confident devastated / grateful 		