

Project Title: Emerging Method For Early Detection of forest fires

Project Design Phase-1: Problem solution fit

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Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS IBM	6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL Can be only used in laptop or personal computer	5. AVAILABLE SOLUTIONS <small>PLUSES & MINUSES</small> AS Real time detection of forest fire Alerting the officers via messages	Explore AS, differentiate
	2. PROBLEMS / PAINS <small>+ ITS FREQUENCY</small> PR People are using sensors to detect the fire ,but this case is not possible for large acres of forest. we proposed a platform of Artificial Intelligence The computer vision methods for recognition and detection of smoke and fire, based on the still images or the video input from the cameras	9. PROBLEM ROOT / CAUSE RC Many forest fires start from natural causes such as lightning which set trees on fire. High atmospheric temperatures and dryness (low humidity) offer favorable circumstance for a fire to start. Forest area cover large acres of land so it is not easy to find the fire easily	7. BEHAVIOR <small>+ ITS INTENSITY</small> BE Compare the existing product in the market Ask for expert opinion	
Focus on PR, tap into BE, understand RC	3. TRIGGERS TO ACT TR Due to increase vulnerability of forest fire Difficult to control the forest fire after it spread to wide area	10. YOUR SOLUTION SL Fetch the data from cctv or drones Image preprocessing Image classification using CNN model Video Analysis using opencv If fire detected, send alert messages	8. CHANNELS of BEHAVIOR CH ONLINE Extract online channels from Behavior Block	Extract online & offline CH of BE
	4. EMOTIONS <small>BEFORE / AFTER</small> EM Before : Stress,Helplessness,frustration After : Less stress,sense of relief ,feeling smart,satisfaction		OFFLINE Extract offline channels from Behavior Block	
Identify strong TR & EM				