

Project Design Phase-I - Solution Fit Template

Project Title: Emerging Method for Early Detection of Forest Fires

Team ID: PNT2022TMID32928

<p>1. CUSTOMER SEGMENT(S)? CS</p> <div>Firefighter who tries to save several lives in forest</div>	<p>6. CUSTOMER CONSTRAINTS CC</p> <div>Low Manpower Lack of Equipments Limited Budget</div>	<p>5. AVAILABLE SOLUTIONS AS</p> <div>1)Construction of observation towers and warehouses for equipment on a fixed distance basis 2)By always patrolling 3)Avoid flammable item</div>
<p>2. JOBS-TO-BE-DONE / PROBLEMS J&P</p> <div>1)Early detection of forest fires 2)Reduce the false alarm 3)Quick and accurate information with less delay</div> <p>Focus on J&P, tap into BE, understand RC</p>	<p>9. PROBLEM ROOT CAUSE RC</p> <div>Lightning ,High atmospheric temperature and dryness are some of the root causes of forest fires</div>	<p>7. BEHAVIOUR BE</p> <div>Directly related:Use more manpower for monitoring and patrolling Indirect related:Ask for expert opinion</div> <p>Focus on J&P, tap into BE, understand RC</p>



<div>3. TRIGGERS</div> <div>TR</div> <div> <div>1. Due to huge loss of wildlife.</div> <div>2. Because of Deforestation.</div> <div>3. worsening of weather conditons.</div> </div>	<div>10. YOUR SOLUTION</div> <div>SL</div> <div>Image processing and Video Analysis with the help of CNN model ,openCV ,of the data fetched from the monitoring cameras or drones to detect the fire. If detected, send alert alarm without delay</div>	<div>8.CHANNELS OF BEHAVIOUR</div> <div>CH</div> <div>8.1 ONLINE</div> <div>Research for existing product</div> <div>8.2 OFFLINE</div> <div>Interaction with experts</div>
<div>4. EMOTIONS: BEFORE / AFTER</div> <div>EM</div> <div>BEFORE</div> <div>Stress and Frustration</div> <div>AFTER</div> <div>Sense of Relief</div>		