

PROJECT DESIGN PHASE – 1

PROBLEM SOLUTION FIT

Date	11 October 2022
Team ID	PNT2022TMID34110
Project Name	SmartFarmer-IOT Enabled Smart Farming Application

Problem-Solution Fit canvas

Purpose / Vision

Version:

<p>1. CUSTOMER SEGMENT(S) CS</p> <p>Our Targeted customers are farmers Argo business and Agri researchers.</p> <p><small>Define CS, fit into CL</small></p>	<p>6. CUSTOMER LIMITATIONS <small>SS, REPORT, DEVICES</small> CL</p> <ul style="list-style-type: none"> ● Farmers are not aware of the new technologies. ● Requires unlimited or continuous internet connection but this is impossible in rural areas where internet connections are slow. 	<p>5. AVAILABLE SOLUTIONS <small>PROS & CONS</small> AS</p> <p>Some of the available solutions are using high yielding varieties, drones for monitoring farm land, various smart water management techniques, automation etc...</p> <p><small>Explore AS, differentiate</small></p>
<p>2. PROBLEMS / PAINS <small>+ ITS FREQUENCY</small> PM</p> <p>Problems which farmers face are that they don't receive the appropriate amount of water or don't get the supply on time, second is the changing climate and other is loss of soil fertility.</p> <p><small>Focus on PM, map into BC, understand BC</small></p>	<p>3. PROBLEM ROOT / CAUSE BC</p> <p>The root cause of the problem is that farmers are unknown about the right need of the plants at the right time.</p>	<p>7. BEHAVIOR <small>+ ITS INTENSITY</small> BE</p> <p>Directly related-they find optimum time interval and alert notification in system Indirectly related-they spend time in hands on experiencing new methods</p> <p><small>Focus on BE, map into BC, understand BC</small></p>
<p>3. TRIGGERS TO ACT TR</p> <p>Risk factor and time spent by farmer May end in crucial situation, so in searching solution to this ended up by smart farmer based on IOT</p> <p><small>Identify strong TR & EM</small></p>	<p>10. YOUR SOLUTION SL</p> <p>A system is built for monitoring the crop field with the help of sensors and automating the irrigation system. The farmers can monitor the field conditions from anywhere.</p>	<p>8. CHANNELS of BEHAVIOR CH</p> <p>ONLINE The concept of Climate Smart Agriculture emerged as a promising solution to secure the resources for the growing world population under climate change conditions</p> <p>OFFLINE Agriculture is strongly affected by climate change due to increasing temperatures and water shortage</p> <p><small>Expand online & offline CH after BC</small></p>
<p>4. EMOTIONS <small>BEFORE / AFTER</small> EM</p> <p>At the time before, over usage of water, maintaining the temperature and nutrients in the soil was very difficult and time spent by work also took too long. After using our technique it made them to analyse the data need to farm and control took them seconds to view from their hands</p>		

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