

PROJECT DESIGN PHASE-1

PROBLEM SOLUTION FIT

Team ID	PNT2022TMID44430
Project Name	IOT BASED SMART CROP PROTECTION SYSTEMFOR AGRICULTURE .

Define CS, fit into CL	<div>1. CUSTOMER SEGMENT(S)<div>CS</div></div> <div>Farmer's ! Who's not near his field. Engaged in agriculture, and raising living organism for food or raw materials.</div>	<div>6. CUSTOMER LIMITATIONS<div>EG. BUDGET, DEVICES</div><div>CL</div></div> <div>Reduce a need for manual labor Increased protection crop monitoring in a remote location.</div>	<div>5. AVAILABLE SOLUTIONS<div>PLUSSES & MINUSES</div><div>AS</div></div> <div>Electric fences were the methods already used by farmers for crop protection.</div>	Explore AS, differentiate
	<div>2. PROBLEMS / PAINS<div>+ ITS FREQUENCY</div><div>PR</div></div> <div>Its is difficult to monitor and control. The consumers, on the other hand, dependon the crops as it provides them with a multitude of utilities.</div>	<div>9. PROBLEM ROOT / CAUSE<div>RC</div></div> <div>The Animals in searchof food enter the field and damage all the crops before harvesting.It affects the yield terribly .</div>	<div>7. BEHAVIOR<div>+ ITS INTENSITY</div><div>BE</div></div> <div>Directly associated: Farmers made electric fences to fear the Animals. Indirectly associated: Involved human labours.</div>	
Identify strong TR & EM	<div>3. TRIGGERS TO ACT<div>TR</div></div> <div>Create oppoutunities to lift people out of poverty in developing nations(over 60%).</div>	<div>10. YOUR SOLUTION<div>SL</div></div> <div>The crop protection system helps the farmers in protecting the crop from the animals and birds which destroy the crop. This system also helps farmers to monitor the soil moisture levels in the field and also the temperature and humidity values near the field. The motors and sprinklers in the field can be controlled using the mobile application..</div>	<div>8. CHANNELS of BEHAVIOR<div>CH</div></div> <div>Online: Customers take online services to look up a survey of real time data in their framework created for them.</div>	Extract online & offline CH of BE
	<div>4. EMOTIONS<div>BEFORE / AFTER</div><div>EM</div></div> <div>Farmers enjoy using this featureEasy to access & user friendly Can monitor within remote location.</div>		<div>OFFLINE</div> <div>Customers take offline which have knowledge onabout hardware products used in it for the datasecreation.</div>	