

PROJECT DESIGN PHASE-1

SOLUTION FIT

Date	15 October 2022
Team ID	PNT2022TMID49320
Project Name	SmartFarmer-IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)<div>CS</div></div> <div>: food and beverage manufacturing; food and beverage stores; food service and eating and drinking places; textiles, apparel, and leather products; and forestry and fishing.</div>	<div>6. CUSTOMER<div>CC</div></div> <div>Increasing control over production leads to better cost management and waste reduction.</div>	<div>5. AVAILABLE SOLUTIONS<div>AS</div></div> <div>Smart Farming systems uses modern technology to increase the quantity and quality of agricultural products. Livestock tracking and Geo fencing. Smart logistics and warehousing. Smart pest management. Smart Greenhouses</div>	Explore AS, differentiate
	<div>2. JOBS-TO-BE-DONE / PROBLEMS<div>J&P</div></div> <div>Smart farming" is an emerging concept that refers to managing farms using technologies like IoT, robotics, drones and AI to increase the quantity and quality of products while optimizing the human labor required by production.</div> <div>Cope with climate change, soil erosion and biodiversity loss.</div> <div>Satisfy consumers' changing tastes and expectations.</div> <div>Meet rising demand for more food of higher quality.</div> <div>Invest in farm productivity.</div>	<div>9. PROBLEM ROOT CAUSE<div>RC</div></div> <div>The challenges of a smart agriculture system include the integration of these sensors and tying the sensor data to the analytics driving automation and response activities.</div>	<div>7. BEHAVIOUR<div>BE</div></div> <div>Connectivity for remote access including access security.</div> <div>Data analysis with standalone analytics solutions.</div> <div>Tracking through GPS or similar technologies.</div> <div>Robotics in the form of processing equipment or autonomous tractors.</div> <div>Sensors that test elements of farming such as water, moisture and temperature.</div>	
Focus on J&P, tap into BE, understand RC	<div>3. TRIGGERS<div>TR</div></div> <div>Smart Farming systems uses modern technology to increase the quantity and quality of agricultural products.</div> <div>Livestock tracking and Geo fencing.</div> <div>Smart logistics and warehousing.</div> <div>Smart pest management.</div> <div>Smart Greenhouses.</div> <div>Climate monitoring and forecasting.</div>	<div>10. YOUR SOLUTION<div>SL</div></div> <div>By using an end-to-end IoT platform like Kaa, you can connect all the sensors and devices you need to have an integrated solution for your field, garden, or greenhouse. The platform also features advanced analytics that will let you analyze historical trends and optimize your farming practices based on actual data.</div>	<div>8. CHANNELS of BEHAVIOUR<div>CH</div></div> <div>ONLINE:</div> <div>Smart farming, which involves the application of sensors and automated irrigation practices, can help monitor agricultural land, temperature, soil moisture, etc. This would enable farmers to monitor crops from</div>	Extract online & offline CH of BE
Identify strong TR & EM	<div>4. EMOTIONS: BEFORE / AFTER<div>EM</div></div> <div>The Top Ten Benefits of Smart Farming</div> <div>Increased work efficiency. One of the greatest things about Smart Farming is its potential to save valuable time.</div> <div>The smart agriculture needs availability of internet continuously. Rural part of most of the developing countries do not fulfil this requirement. Moreover internet connection is slower.</div>			

