

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS <ul style="list-style-type: none"> Farmers who trying to protect crops from various problems 	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> <ul style="list-style-type: none"> Limited supervision. Limited financial constrains. Lack of manpower. 	5. AVAILABLE SOLUTIONS AS <small>PLUSES & MINUSES</small> <ul style="list-style-type: none"> Automation in irrigation. CCTV camera to monitor and supervise the crops. Alarm system to give alert while animals attacks the crops. 	Explore AS, differentiate
Focus on PR, tap into BE, understand RC	2. PROBLEMS / PAINS PR <small>+ ITS FREQUENCY</small> <ul style="list-style-type: none"> Crops are not irrigated properly. Improper maintenance of crops. Lack of knowledge among farmers in usage of fertilizers and hence crops are affected. Requires protecting crops from Wild animals attacks, birds and pests. 	9. PROBLEM ROOT / CAUSE RC <ul style="list-style-type: none"> Due to insufficient labour forces. Due to various environmental factors such as temperature climate, topography and soil quality which results in crop destruction. Due to high ammonia, urea, potassium and high PH level fertilizers. 	7. BEHAVIOR BE <small>+ ITS INTENSITY</small> <ul style="list-style-type: none"> Asks suggestions from surrounding peoples and implement their technologies. Consumes more time in cropland. Searching for an alternative solution for an existing solution. 	Focus on PR, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS TO ACT TR <ul style="list-style-type: none"> By seeing surrounding cropland with installing machineries. Hearing about innovative technologies and effective solutions. 4. EMOTIONS EM <small>BEFORE / AFTER</small> <ul style="list-style-type: none"> Mental frustrations due to insufficient production of crops. Felt smart enough to follow the available technologies with minimum cost. 	10. YOUR SOLUTION SL <ul style="list-style-type: none"> Moisture sensor interfaced with Arduino Microcontroller to measure the moisture level in soil and relay is used to turn ON and OFF the motor pump for managing the excess water level. It will be updated to authorities through IOT. Temperature sensor connected to microcontroller is used to monitor the temperature in the field. The optimum temperature required for crop cultivation is maintained using IOT based fertilizing methods are followed to minimize the negative effects on growth of crops while using fertilizers. Image processing techniques with IOT is followed for crop protection against animal attacks. 	8. CHANNELS of BEHAVIOR CH <div>ONLINE</div> <ul style="list-style-type: none"> Using different platforms/social media to describe the working and uses of smart crop protection device. <div>OFFLINE</div> <p>Giving awareness among farmers about the application of the device.</p>	Extract online & offline CH of BE