Define CS, fit into CL	CS Farmers who trying to protect crops from various problems CS	CL CUSTOMER LIMITATIONS EG. BUDGET, DEVICES Limited supervision. Limited financial constrains. Lack of manpower.	AVAILABLE SOLUTIONS PLUSES & MINUSES CCTV camera tomonitor and nsupervise the bcrops. Alarmnsystem to give alert while animals attacks the crops.
Focus on PR, tap into BE, understand RC	PROBLEMS / PAINS + ITS FREQUENCY Cropsarenotirrigatedproperly. Improper maintenance of crops. Lack of knowledge among farmers inusage offertilizers and hence crops are affected. Requires protecting crops from Wild animals attacks, birds and pests.	9. PROBLEM ROOT / CAUSE •Due to in sufficient labourforces. Due to various environmental factors such as temperature climate,to pography and soilquality which results incrop destruction. •Due to high ammonia,urea, potassium and highPHlevelfertilizers.	**Onsumes more time in cropland.** **Searching for an alternative solution for an existing solution.** **The property of the propert
g TR & EM	3. TRIGGERS TO ACT By seeing surrounding cropland with installing machineries. • Hearing aboutinnovativetechnologies andeffective solutions.	10. YOURE SOLLITION MARADUINOMIC TO CONTROLLER TO MEASURE the moisture level in soil and relay issued toturn ON and OFF the motorpump for managing the excess waterlevel. It will be updated to authorities through IOT. Temperature sensor connected to microcontroller issued to monitor the temperature inthe field. The optimum temperature required for crop cultivation is maintained using	8. CHANNETTE OF PETHANSOR Amedia ONLINE to describe the working and uses of smart crop protection device.
Identify strong TR	Pelt smart enough to follow the available technologies with minimum cost. EM EM Production of crops.	IOT basedfertilizingmethodsare followed,to minimize the negative effects on growth of crops while using fertilizers Image processing techniques with IOT is followed forcrop protection agains animalattacks.	smart crop protection device. OFFLINE Giving awarenes among farmers about the application of the device.