

# PROJECT PHASE 1

## SOLUTION FIT

DATE	01-10-2022
TEAM ID	PNT2022TMID34075
PROJECT NAME	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

### SOLUTION FIT:

<b>1.CUSTOMER SEGMENT</b> CS farmers are our customers	<b>6.CUSTOMER LIMITATIONS</b> CL Farmers have hesitation in order to use electrical fences because of its effects	<b>5.AVAILABLE SOLUTIONS</b> AS Sensors detect the entry of birds and animals which makes the farmer get alert by alarming.Past-plus-Electrical fences protect the crop Minus-but it harm to birds and animals
<b>2.PROBLEMS/PAINS</b> PR farmers are facing problems in protecting their crops from pests mainly from animals and birds. They are using electrical fences before for their crop protection	<b>9.PROBLEM ROOT/ CAUSE</b> RC Animals such as Elephants,wild pigs,Monkeys, Moles and many others may cause serious damage to crops.They can damage the plants by feeding on plant parts or simply by running over the field and trampling over the crop fields.Also some animals damage the fences and enter into the farm	<b>7.BEHAVIOR</b> BE Directly related-Farmers were looking for some other methods which protect their crops as well doesn't harmful for birds and animals
<b>3.TRIGGERS TO ACT</b> TR By seeing their neighbor farmers and getting suggestions from them	<b>10.YOUR SOLUTION</b> SL For this we are come up with virtual fencing which protects the farm and prevent the entry of birds,animals and unknown persons	<b>8.CHANNELS of BEHAVIOR</b> CH virtual fencing is an animal-friendly fencing system that enables livestock to be confined or moved without using fixed fences  It allows ranchers to control livestock distribution in rangeland landscapes without physical fences
<b>4.EMOTIONS</b> EM Before solving this problem they feel depressed and worried about their crops.After solving the problem by using our solution the crops were protected and they feel happy		