V.S.B.ENGINEERING COLLEGE, KARUR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

TITLE : IoT BASED SMART FARMING APPLICATION
DOMAIN NAME : INTERNET OF THINGS
LEADER NAME : SUNILKUMAR A
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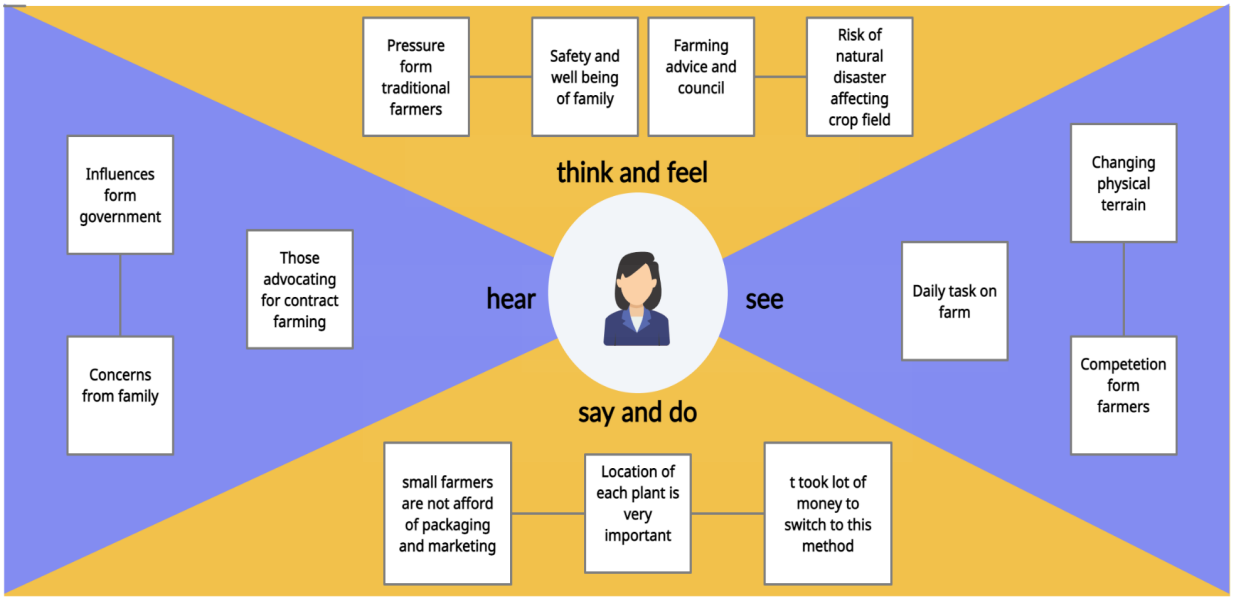
PROBLEM STATEMENT

THE TRADITIONAL AGRICULTURE AND ALLIED SECTOR CANNOT MEET THE REQUIREMENTS OF MODERN AGRICULTURE WHICH REQUIRES HIGH-YIELD, HIGH QUALITY AND EFFICIENT OUTPUT. THUS, IT IS VERY IMPORTANT TO TURN TOWARDS MODERNIZATION OF EXISTING METHODS AND USING THE INFORMATION TECHNOLOGY AND DATA OVER A CERTAIN PERIOD TO PREDICT THE BEST POSSIBLE PRODUCTIVITY AND CROP SUITABLE ON THE VERY PARTICULAR LAND. THE ADOPTION OF ACCESS TO HIGH-SPEED INTERNET, MOBILE DEVICES, AND RELIABLE, LOW-COST SATELLITES (FOR IMAGERY AND POSITIONING) ARE FEW KEY TECHNOLOGIES CHARACTERIZING THE PRECISION AGRICULTURE TREND.
IOT HAS BEEN MAKING DEEP INROADS INTO SECTORS SUCH AS MANUFACTURING, HEALTH-CARE AND AUTOMOTIVE. WHEN IT COMES TO FOOD PRODUCTION, TRANSPORT AND STORAGE, IT OFFERS A BREADTH OF OPTIONS THAT CAN IMPROVE INDIA'S PER CAPITA FOOD AVAILABILITY. SENSORS THAT OFFER INFORMATION ON SOIL NUTRIENT STATUS, PEST INFESTATION, MOISTURE CONDITIONS ETC. WHICH CAN BE USED TO IMPROVE CROP YIELDS OVER TIME. EMPATHY MAP


Pressure form traditional farmers
Safety and well being of family
Farming advice and council
Risk of natural disaster affecting crop field
think and feel
Influences form government
Concerns from family
Those advocating for contract farming
hear
see
Daily task on farm
Changing physical terrain
Competetion form farmers
say and do
small farmers are not afford of packaging and marketing
Location of each plant is very important
t took lot of money to switch to this method