

Project Kickoff

Project Name : Smart Agriculture System Based on IOT
Category : Internet of Things
Date : 20th May, 2020
Team Lead : Valishetty Priyanka
Team Size : 1

Background

In Agriculture, data is very important for the success of a specific crop in a given geographical climate. Such information is particularly of interest to the farmer, Agriculture consultants, and Agriculture companies. Agriculture depends on data for information such as realtime weather forecasting, temperature, humidity, soil moisture, success rate of fertilizers, the impact of natural calamities on soil and more. Exchange of such information between farmers and consultants, however, are limited. Hence, there is a necessity for Smart Agriculture.

Stake Holders

Smart farming reduces the ecological footprint of farming. Smart farming can make agriculture more profitable for the farmer. Decreasing resource inputs will save the farmer money and labor, and increased reliability of spatially explicit data will reduce risks.

Objectives

Build an app using which a farmer monitor the temperature, humidity and soil moisture parameters along with weather forecasting details. The app should be able to water the crops and control the motors from anywhere.

Responsibilities

Get acquainted with IBM IOT platform. Learn external platforms like Open Weather API and using Node-Red.

Potential Issues or risks

High costs to adopt technology for individual farms and limited knowledge and skills can be significant adoption hurdles.