IOT Based Smart Crop Protection System for Agriculture

Presented by

TeamID:PNT2022TMID30026

Manoj.m

Purusotham.V

Vinay kumar.N

Abhishek.R

SYNOPSIS

Introduction

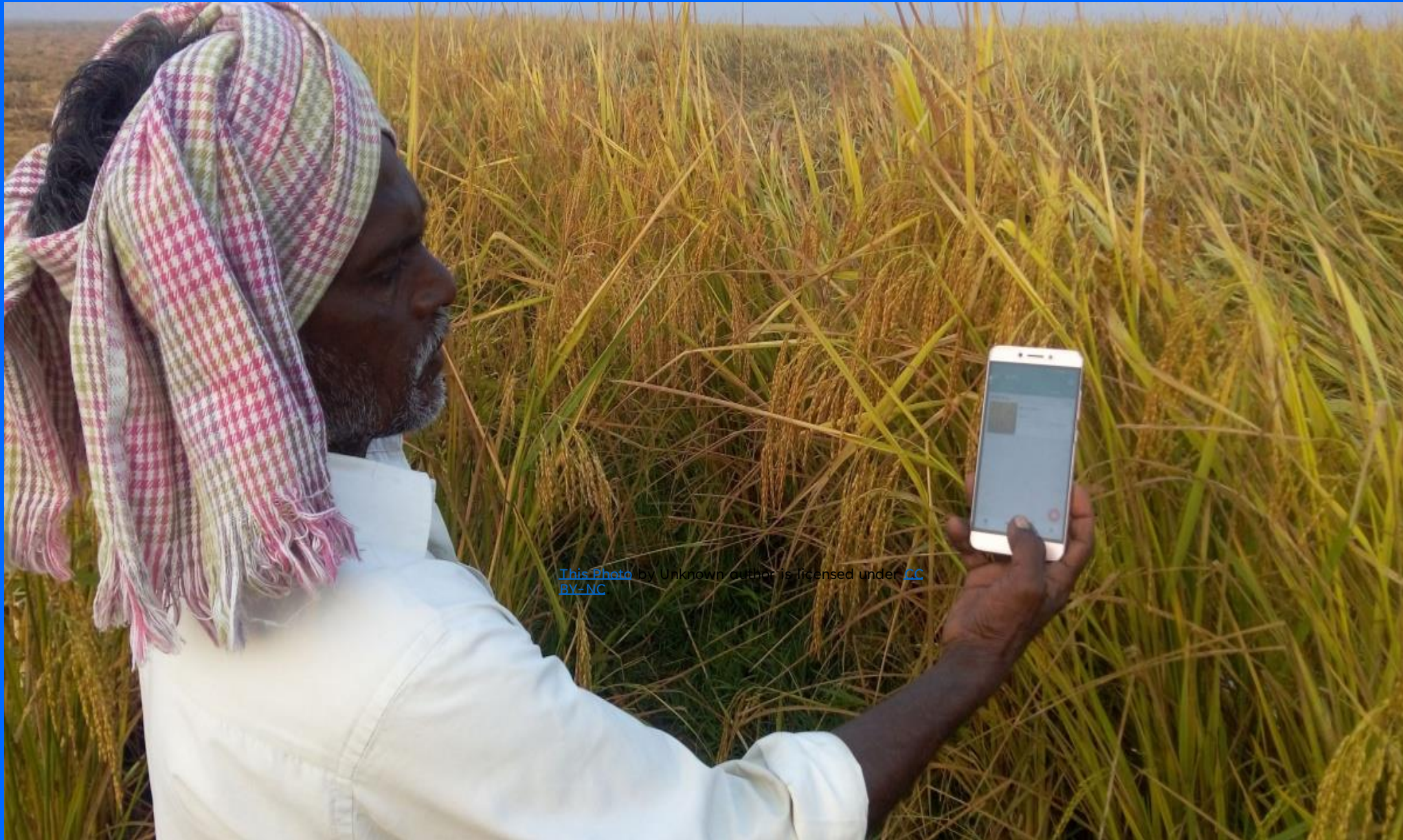Problem Statement

Problem Solution

Conclusion

Introduction

The main aim of the project is to help the farmers to automate their farming process through the mobile application and monitor the farm land using the device and mobile application.This project also protects the farm land from wild animals and birds.By using this project farmers can save their crops from animals .

Problem Statement

Farmers are to be present at farm for its maintenance irrespective of the weather conditions. They have to ensure that the crops are well watered and the farm status is monitored by them physically. Farmer have to stay most of the time in field in order to get a good yield. In difficult times like in the presence of pandemic also they have to work hard in their fields risking their lives to provide food for the country.

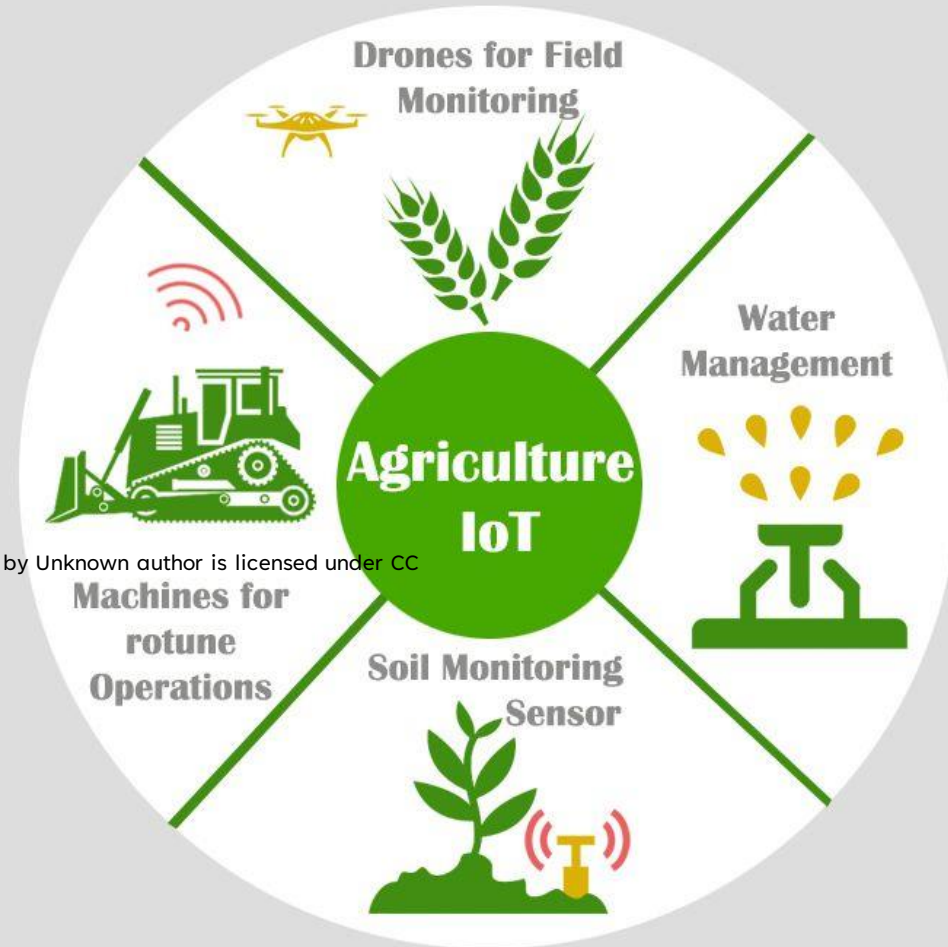This Photo by Unknown author is licensed under CC BY-NC

Problem solution

In order to improve the farmer's working conditions and make them easier, we introduce loT services to him in which we use cloud services and internet to enable farmer to continue his work remotely via internet. He can monitor the field parameters and control the devices in farm.
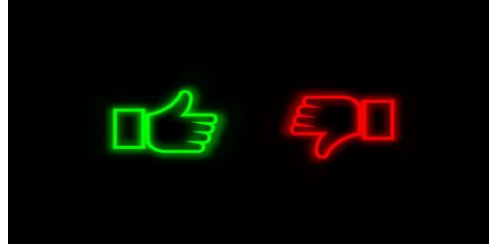
Solution

How IoT technology is benefiting today's modern farming industry

Drones for Field Monitoring

Water Management

Agriculture IoT

Machines for rotune Operations

Soil Monitoring Sensor

Advantages & Disadvantages

ADVANTAGES:

1)Farms can be monitored and controlled remotely.

2)Increase in convenience to farmers.

3)Less labour cost.

4)Better standards of living.

DISADVANTAGES:

1)Lack of internet/connectivity issues.

2)Added cost of internet and internet gateway infrastructure.

3)Farmers wanted to adapt the use of WebApp

Thank you

If you eat today
thank a farmer.

— Unknown

@therandomvibez