

e-Farming Project

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Learning Timeline



- Introduction to e-Farming
- Application of e-Farming
- Project Explanation



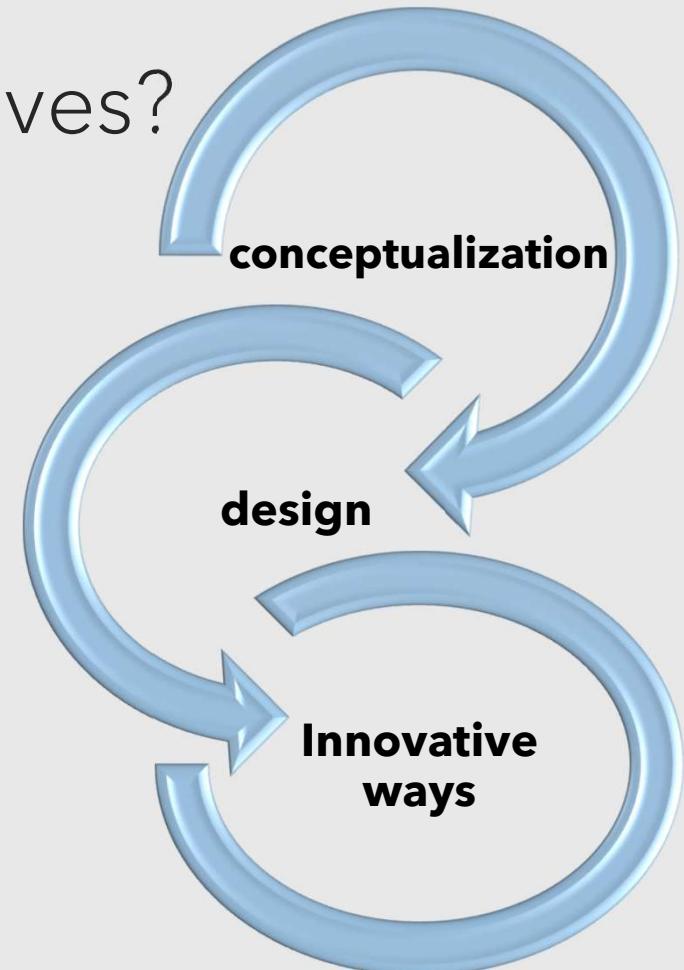
Introduction to e-Farming

What is e-Farming?

- **Information and communication technology in agriculture (ICT in agriculture)**, also known as **e-agriculture/e-farming**, focuses on the enhancement of agricultural and rural development through improved information and communication processes to the older practices of farming.

What Does e-Farming Involves?

- e-agriculture involves the **conceptualization, design, development, evaluation and application of innovative ways** to use information and communication technologies (ICTs) in the rural domain, with a primary focus on agriculture.

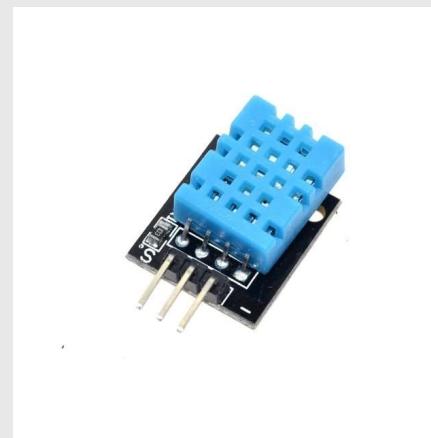




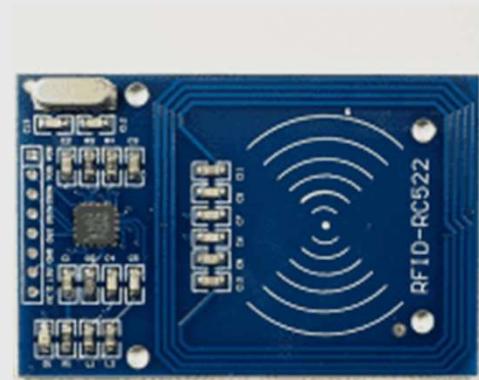
Application of e-Farming

How can we implement these Ideas in farming?

- ICT includes **devices, networks, mobiles, services and applications**; these range from innovative Internet-era technologies and **sensors** to other pre-existing aids such as **fixed telephones, televisions, radios and satellites**.
Provisions of standards, norms, methodologies, and tools as well as development of individual and institutional capacities, and policy support are all key components of e-agriculture.



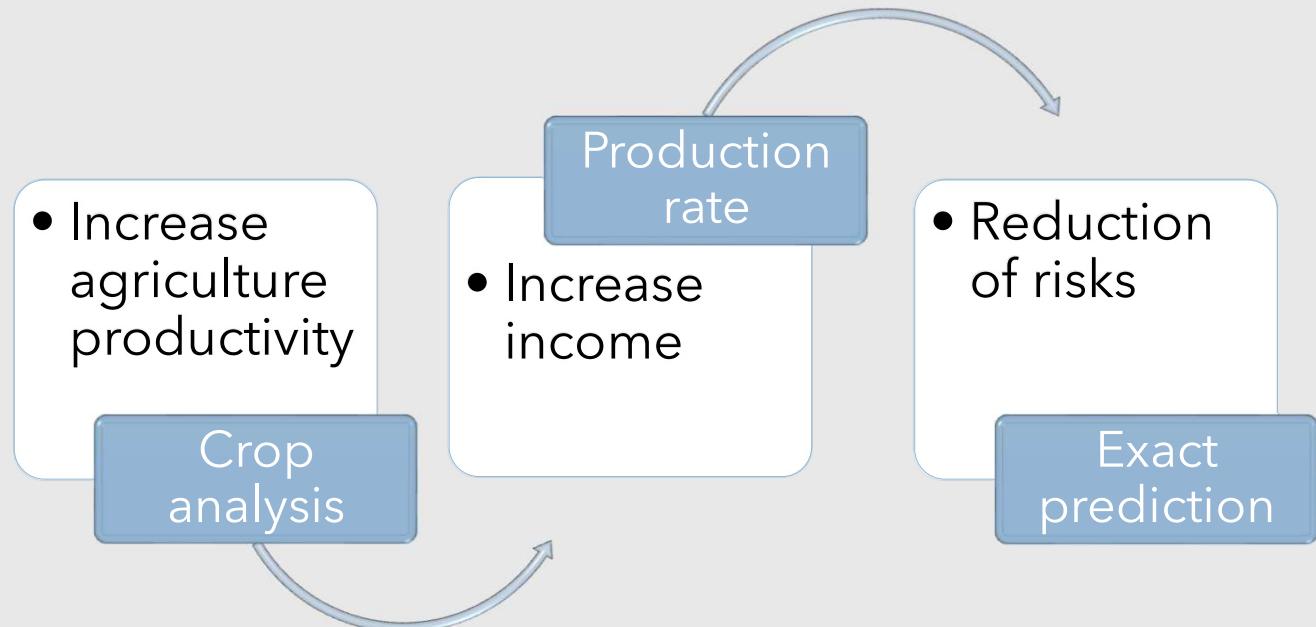
Dht11-temperature and humidity sensor



RFID-Radio Frequency Identification sensor

What is the benefit of e-Farming?

- Many ICT interventions have been developed and tested around the world, with varied degrees of success, **to help agriculturists improve their livelihoods through increased agricultural productivity and incomes, and reduction in risks.**





Project Explanation



e-yantra Farming Setup Initiative(efsI)

Developed Under
e-Yantra Lab
Government College of Engineering
Nagpur

Project Timeline



Implementation

◦ **Farm Setup**

5x3 dimensions of the drip irrigation system for minimum water requirement



Plantation



Plants Planted

Spinach(पालक)



Carrot(गाजर)

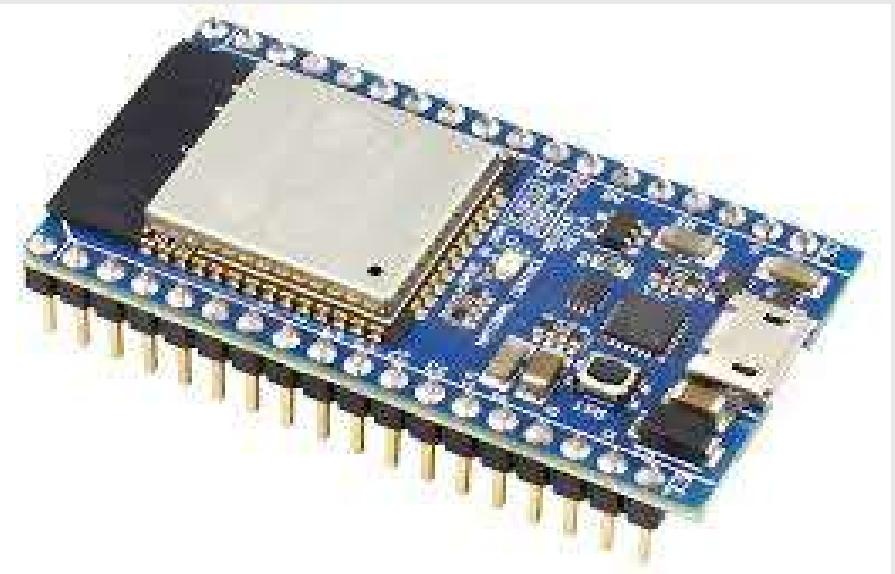




Technology Stack:



Bidirectional Solenoidal Latch

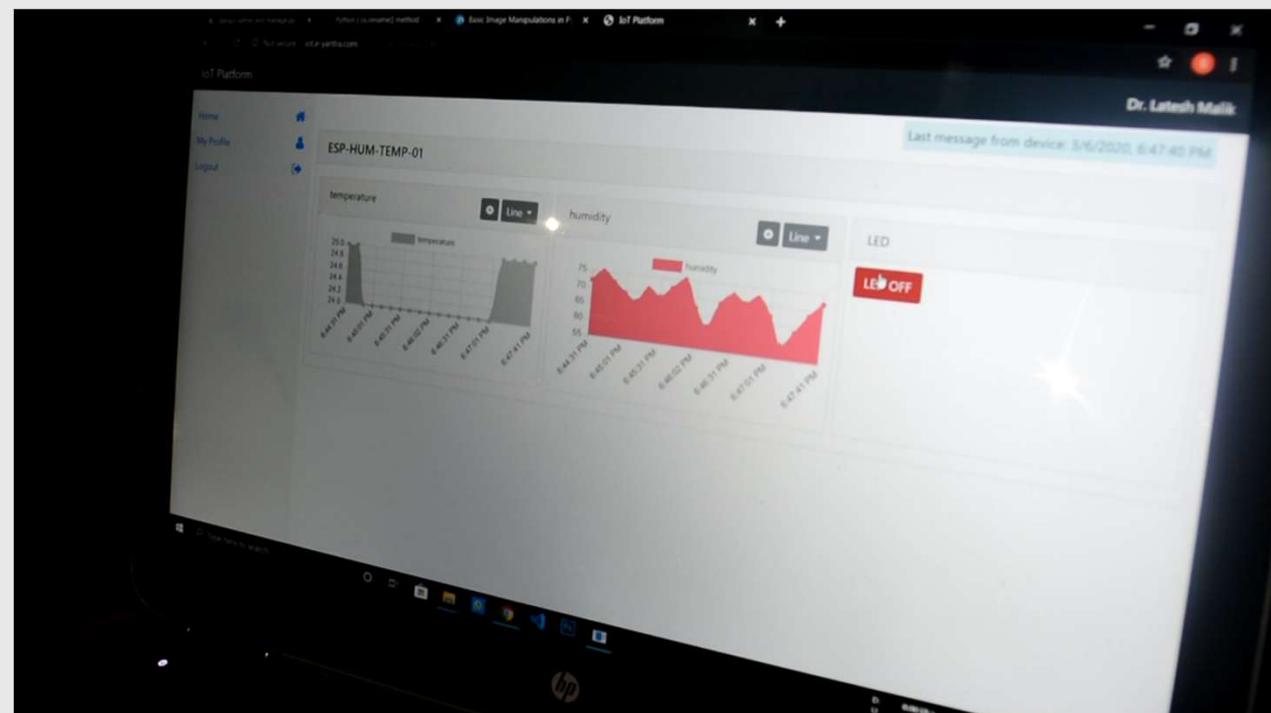


Esp-32 WIFI module



Portal

Online portal -
Data gets uploaded
and analyzed and
according to that,
supply of water is
altered the





Demonstration



Q&A Session

ELSI GCOEN

◦ <https://youtu.be/CuyM6BmAiT0>

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