



Idea Title: Smart Irrigation System

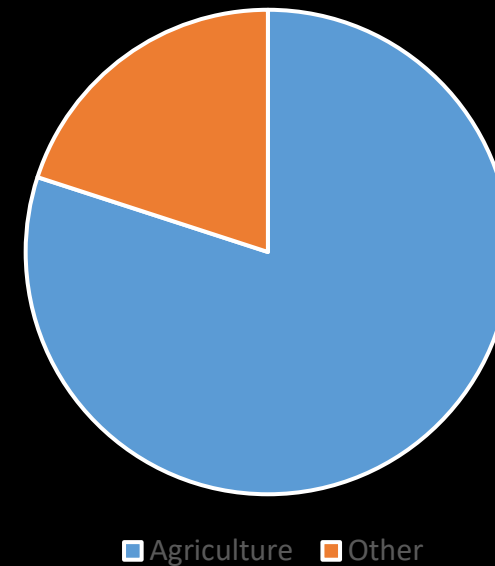
Idea Theme: Environment/Water and Agriculture Problem

Team Members: Arjun Raj – 11th Grade, MAIS

Problem Statement

- Watering Crops is Inefficient
- India uses **80% of its Fresh Water for Agriculture Purposes**¹
- Water Scarcity

Fresh Water Usage in India



¹ http://mowr.gov.in/sites/default/files/Guidelines_for_improving_water_use_efficiency_1.pdf.

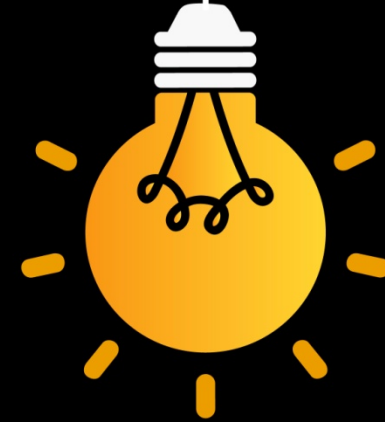
Solution and Uniqueness

Solution:

- Smart Irrigation System with Farming Assistance
- Automated Crop Watering
- Personalized Farming Suggestions

Uniqueness:

- Low Cost
- Simple to Use
- Durable
- Crop Watering Automation and Personalized Suggestions powered by **Artificial Intelligence**

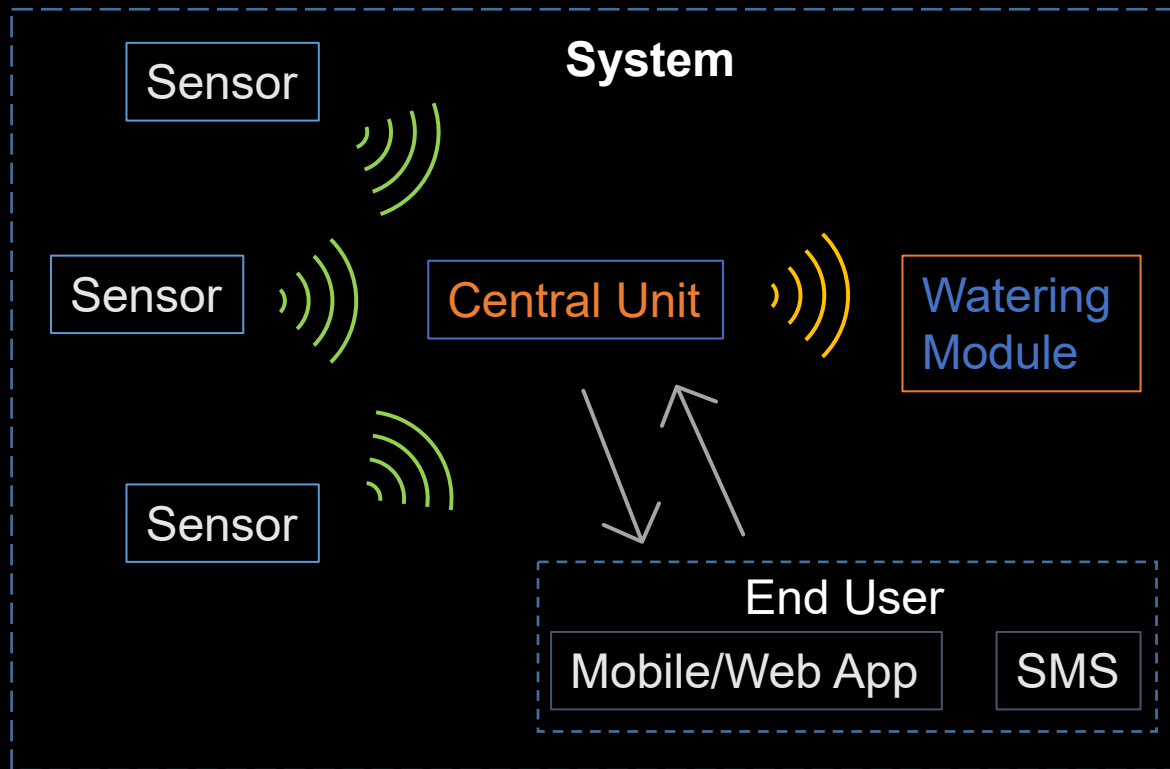


Idea Pitch



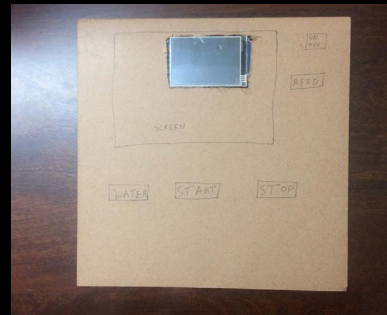
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Features:

- Fully Automated Watering
- No Human Intervention Required
- Intelligently Decides When to Water depending on the Environment in the Farm
- Integrate with Existing Water Drip Irrigation
- Suggestions on When to Grow, Harvest and Sell
- Efficient Watering



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The Market and Target Audience

Market:

- Farmers/Agriculture
- Agriculture: **11% GDP¹, 41% people employed²**

Impact:

- Save Water
- Better Crop Yield
- Better Profits for Farmers

¹ <https://www.outlookindia.com/website/story/rise-in-agriculture-and-allied-sectors-share-in-gdp/372601>

² <https://tradingeconomics.com/india/employment-in-agriculture-percent-of-total-employment-wb-data.html>

Future Roadmap



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October 2020 –
December 2022

- Development Completion: January 2022
- Testing: January 2022 – December 2022

2023 - 2024

- Offer product to 1 State in India

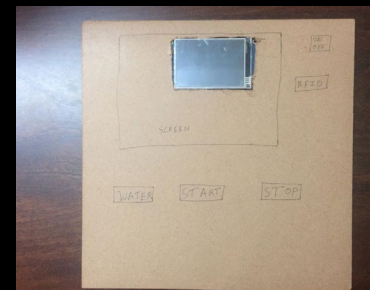
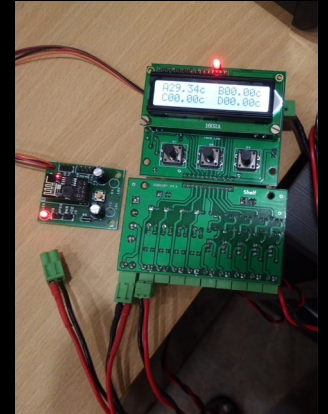
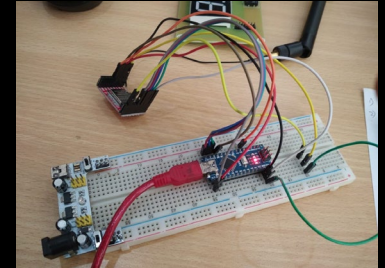
2024 Onwards

- Sell product to all regions of India

More Information on the Project at ArjunRaj.com/smart-irrigation-system

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Q & A

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