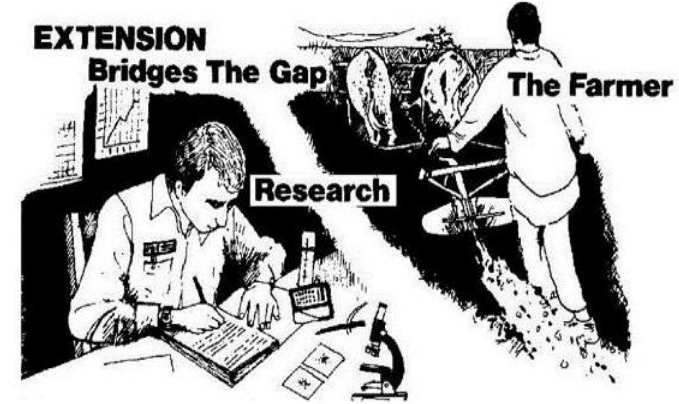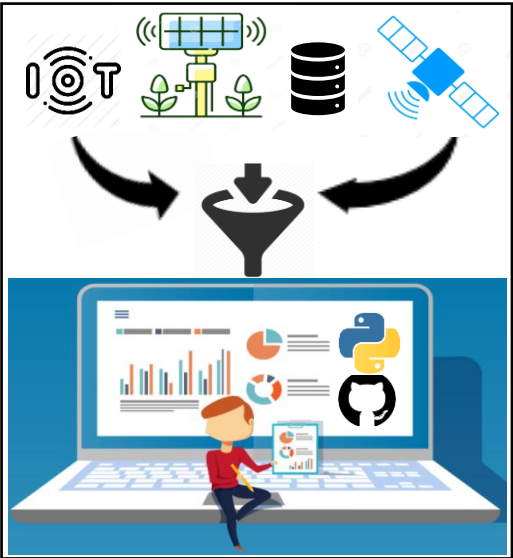Step1: Data Collection & Pre-processing

A field irrigated by a centre pivot located at the Clemson Edisto REC
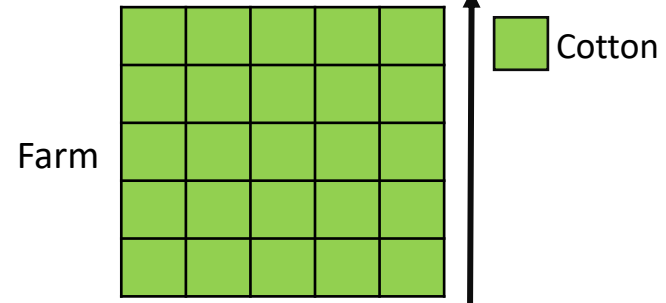
Soil Moisture Sensor Station

Soil Moisture Sensor Station

Weather Station

Soil Moisture Sensor Station

EXTENSION Bridges The Gap

The Farmer

Research

Step 3: Dissemination, Extension, & Outreach

Farmers Focus Group

Optimization

Farm

Cotton

Trajectories

Farmers

Agent (Deep Reinforcement Learning Algorithm)

Observations

Optimization

Precision Irrigation

Feedback

Step 2: DRL Development

Table 1: Project's timetable

Tasks	Tasks description	Duration		
		09/01/2022 - 12/31/2022	03/01/2024 - 05/31/2024	06/01/2024 - 08/31/2024
1	Data collection and pre-processing	🟩	🟩	
2	Develop DRL Algorithms		🟩	🟩
3	Extension and Outreach and Results Dissemination			🟩