SMART AGRICULTURE

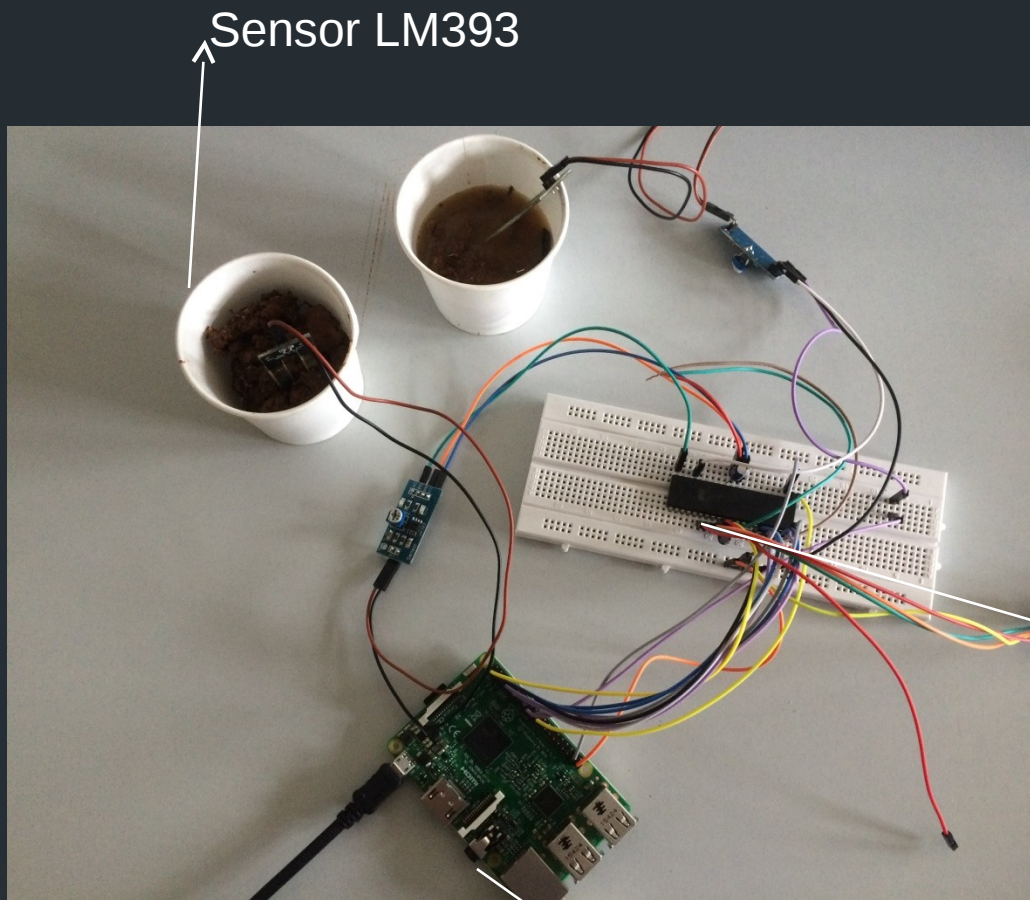## Wireless Soil Moisture Monitoring

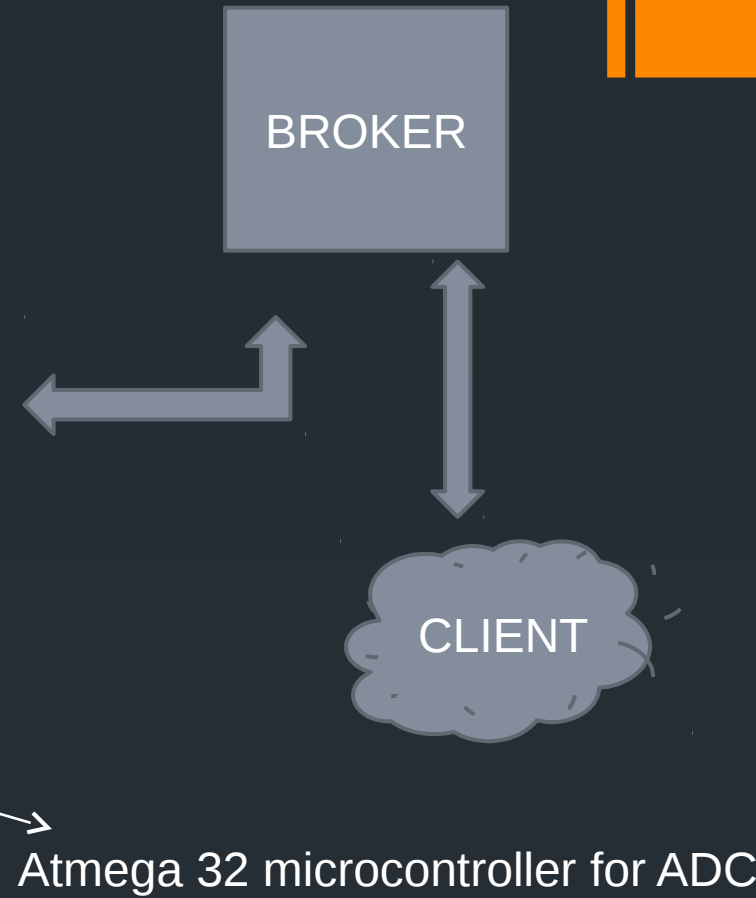By team : SOIL-NET

HIGH LEVEL IDEA

- Automate the monitoring of agriculture fields
- Reduce manual labour
- Get real time data of soil moisture content
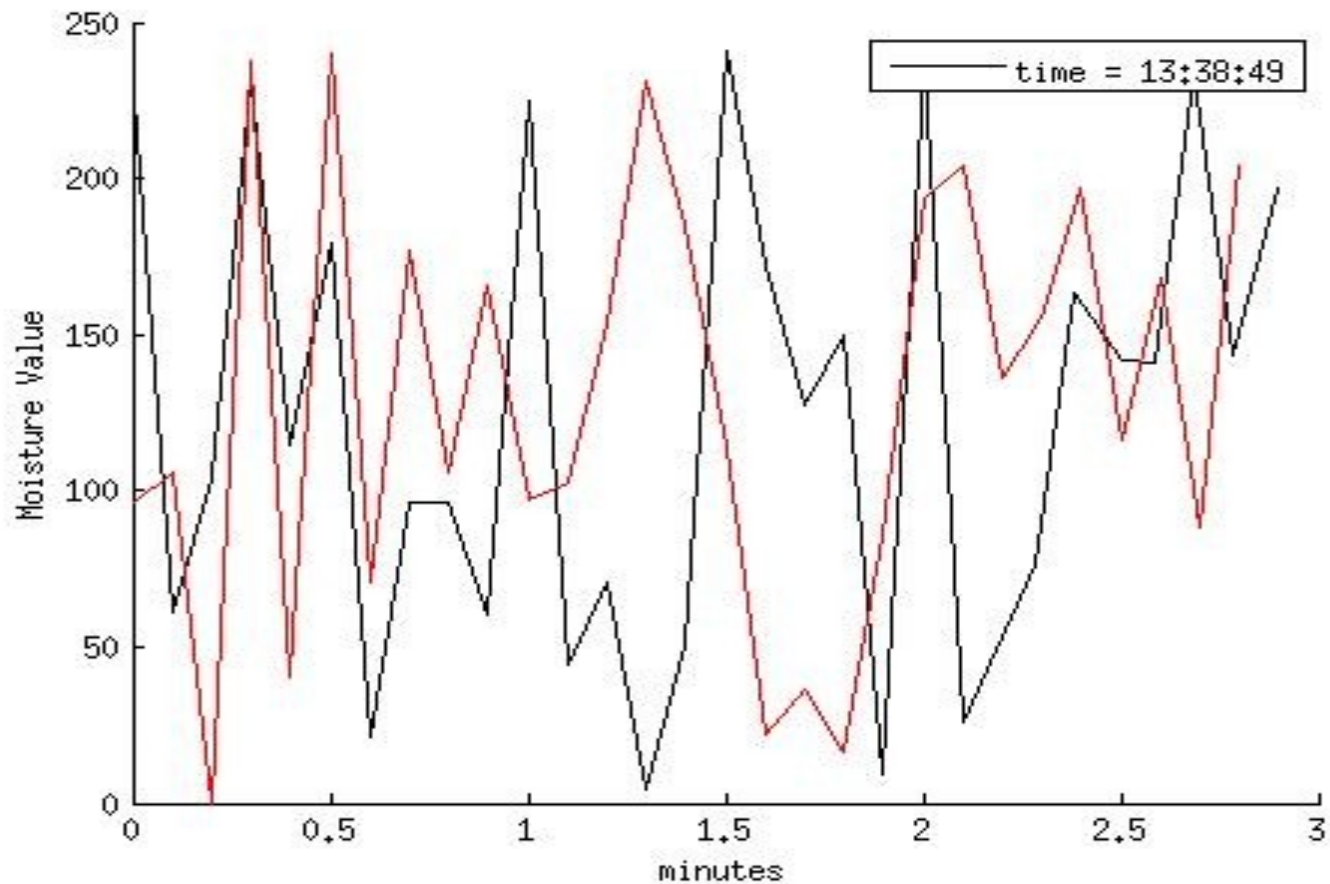- Informed decision making

ARCHITECTURE

Sensor LM393

BROKER

CLIENT

Atmega 32 microcontroller for ADC

Raspberry Pi

RESULTS

OTHER APPLICATIONS

1. Residential Lawns
2. Horticulture
3. Soil Respiration Measurements

IMPACT

- SOCIAL:

50% of Indian Population is involved in agriculture sector contributing to around 13% national GDP

- BUSINESS:

Data Analysis, Sensor and other component manufacturing, new technlogical inventions,research etc

FUTURE WORK

- Deploying more sensors and creating moisture map

THANK YOU