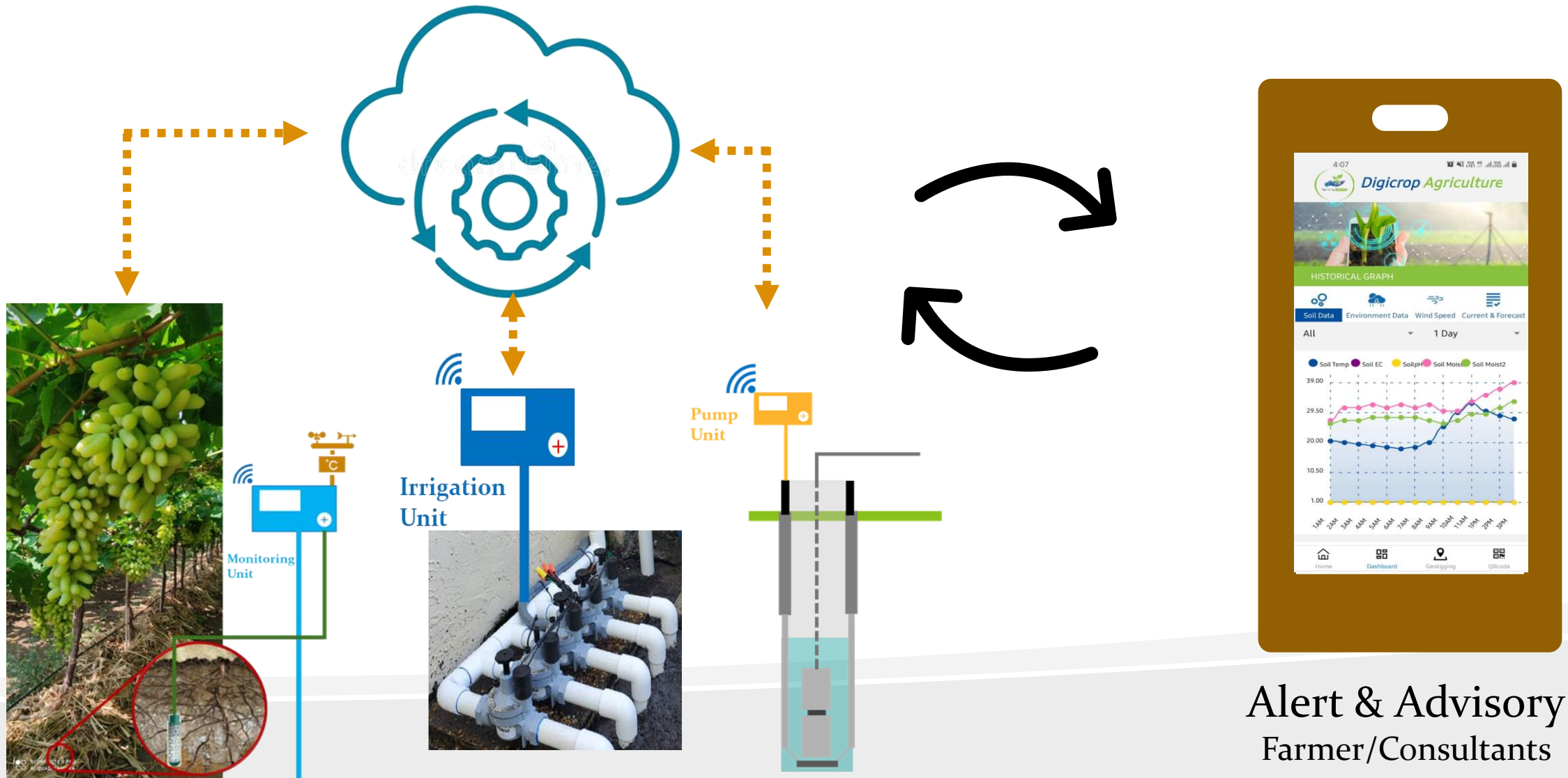




# Digicrop Agriculture

Creating **Digital Passport** for Every Crop to elevate farmers **in**  
**the Value Chain**

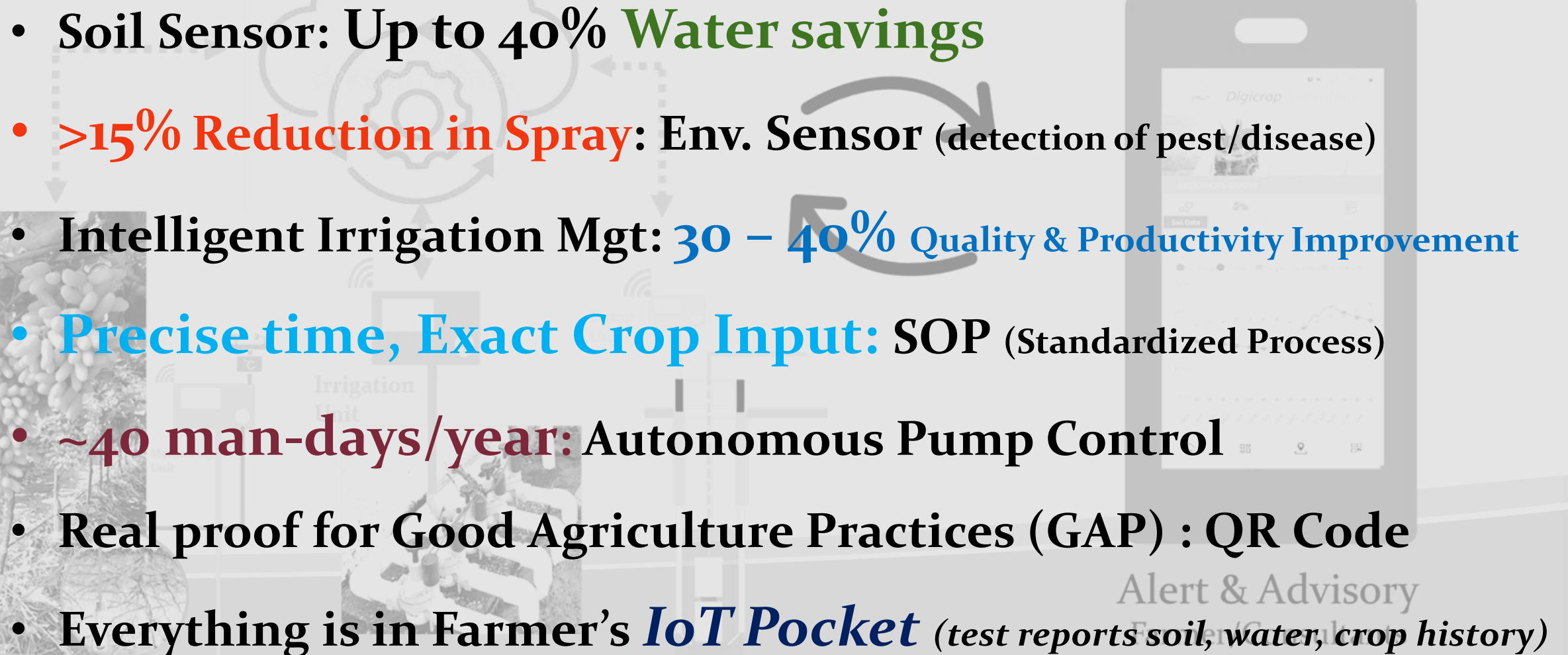
# What We Do for Farmers? → take out their struggle



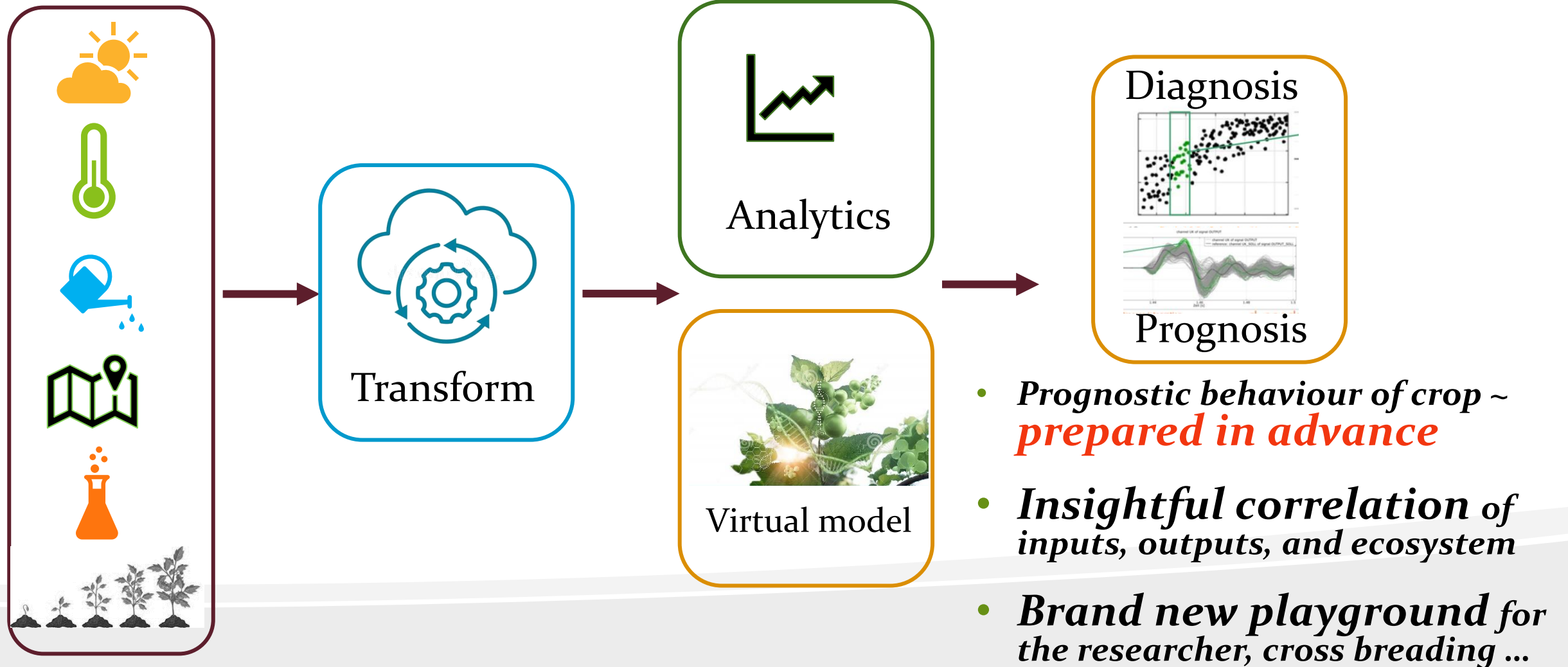
Alert & Advisory  
Farmer/Consultants



What does it mean for farmers? → breakeven @ 1 season

- **Soil Sensor: Up to 40% Water savings**
  - **>15% Reduction in Spray: Env. Sensor** (detection of pest/disease)
  - **Intelligent Irrigation Mgt: 30 – 40% Quality & Productivity Improvement**
  - **Precise time, Exact Crop Input: SOP** (Standardized Process)
  - **~40 man-days/year: Autonomous Pump Control**
  - **Real proof for Good Agriculture Practices (GAP) : QR Code**
  - **Everything is in Farmer's IoT Pocket** (*test reports soil, water, crop history*)
- 

# What is in the Box? → digital twin for every crop & every field





## What does It mean to Science?

- ***Digitally Simulate*** the cultivation process
- Accurate estimation of ***crop Growth***
- ***Meaningful correlation*** of inputs to plant & plant growth
- Track, measure, monitor or control ***the farm process***
- ***Truly digital twin of your crop***



# Our Products & Services:

## Smart Field Data Logger:

- IoT-enabled device connected multiple sensors like soil moisture, soil temperature, environmental humidity, temperature, pressure, sunlike intensity
- Customizable device to accommodate another sensor like NPK, pH, rainfall, wind direction and speed.
- Small mobile application with an appealing dashboard, with a field Geo-tagging facility
- Crop cycle activity calendar to schedule and also track daily
- Storage place for reports like soil & water tests, residue tests, and crop pics.
- Access to consultant network and standard advisory for crops
- Compressed QR code generator and host URL to showcase reliable information to your end-consumer.
- Quad-Band GSM/GPRS works with 850/900/1800/1900 MHz frequency; compatible for 2G / 4G network
- Units with Optional LTE-FDD/GSM/GPRS/EDGE also available



# Our Products & Services:

## Intelligence Irrigation System :

- IoT-enabled solenoid valve control working in sync with the pump control system
- Programmable over Smart APP over Internet/SMS
- Basic Unit with pump control + solenoid valves of size 1.5" or 2" or 3"
- Solar-powered control valves (give 2-3 days of battery backup)
- No. of valves and their control depends on the irrigation structure
- Quad-Band GSM/GPRS works with 850/900/1800/1900 MHz frequency; compatible for 2G / 4G network / LoRa



# Our Products & Services:

## Pump Control Unit

- Applicable for all kinds of pump set like Single Phase, Three Phase; (< 0.5 to 20 Hp)
- GSM & IVRS based operation allow to control pump set with SMS, Call and also IoT
- Quad-Band GSM/GPRS works with 850/900/1800/1900 MHz frequency; compatible for 2G / 4G network
- In-Built features like Under – Over voltage detection and Single Phase Detection, Dry – Run, Over Load Detection; provide maximum protection for pump
- Unit Monitors Operation Tampering and intimate users
- Multiple User can operate pump set remotely
- Assist to schedule operation as users needs
- Onboard Sensor helps to monitor Pump Set Condition
- Mobile Application for easy to operate
- Theft protection and Software lock for securing unit.
- LED indication for Phase, Pump and Units Operation indication
- Attractive, durable and Fire resistant plastic box
- Available in multiple languages
- Available for With and without Neutral Power Supply Lines
- Battery back-up 8-12 hrs
- 1-Year Replacement in case of operation issue (without physical damage)







# Commercials:

Sr. No.	Product & Description	Price/Unit
1	<b>Pump Control Unit (Krushipurna 1.0)</b> Remote actuation and monitoring system; control over IoT, Calls (VRS service), SMS, and Android application	₹5000
2	<b>Smart Field Data Logger (Krushipurna 2.0~Basic)</b> IoT-based data logger connected 7 sensors (Soil moisture 2, soil temp 1, Sunlight 2, Air temp 1, Air Humidity 1), Dashboard with Android application	₹32000
3	<b>Smart Field Data Logger (Krushipurna 2.0~Advance)</b> IoT-based data logger connected 7 sensors (Soil moisture 2, soil temp 1, Sunlight 2, Air temp 1, Air Humidity 1, Rain Count, Wind direction & Speed), Dashboard with Android application	₹40000
4	<b>Field Monitoring System (Krushipurna 2.0~Intelligence)</b> Cloud analytics Services, Alert for Pest & Disease, Manage & Trace Field activities, Monitoring Growth Rate, Irrigation Alert	₹6000/Yr +Device Cost
5	<b>Irrigation Control (Krushipurna 3.0~Basic &amp; Intelligence)</b> IoT Based on Irrigation valve control, irrigation architecture, value mapping, and installation. (Start from Pump Control + 2 Values (1.5" or 2" or 3")) <b>** cost depends on number values and irrigation system.</b>	₹65000 onwards

**Note: Prices are excluding taxes, freight and handling charges**

# Digicrop Team: Collective 35+ years of experience in product development



**Dhananjay Zinge**

- 15+ international patents



MS (Mechatronics) with  
12+ years of experience.

*Part-Time*



**Prashant Habib**

B.E. (Electronics) with  
11+ years of experience

*Part-Time*



UNIVERSITY OF PUNE



**Mandar Mute**

MCA with 12+ years of  
experience.

*Part-Time*

02

Directors

11

Full time  
Engineers

02

Professional  
Consultant

01

Fulfilment team

**Our  
Partners**



Dr. Punjabrao Deshmukh  
Krishi Vidyapeeth Akola



STPI NEXT  
INITIATIVES



Department of Electronics and IT  
Ministry of Communications & Information Technology  
Government of India



Software Technology Parks of India



## Contact:

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### Our Partners





Thank you