

# FARM5.0

*Digital assistant and lightweight digital twin platform  
for kiwi farming*

## Problem statement

- Kiwi farms in Greece face challenges: variable rainfall, seasonal water scarcity, pest infestations, high resource demand, and inefficiency.

## Value proposition of FARM5.0

- A farmer-centric digital solution integrating IoT sensors, predictive analytics, and an AI-powered assistant for improved irrigation, pest control, and resource efficiency in small and medium-sized kiwi farms

## Consortium:

1. ADS provider & integrator:



YTHION OU

2. Pilot



MORAITI  
KiWi Farm

## Digital support for kiwi orchards

### Water use

Better support for irrigation decisions under changing weather and orchard conditions.

### Risk awareness

Earlier awareness of frost, pest-risk and other critical field conditions.

### Digital gap

Affordable tools that fit small and medium farms and real farm routines.

**Goal:** Turn field and weather data into usable daily decision support.

# Approach

From sensing to decision support in one workflow.

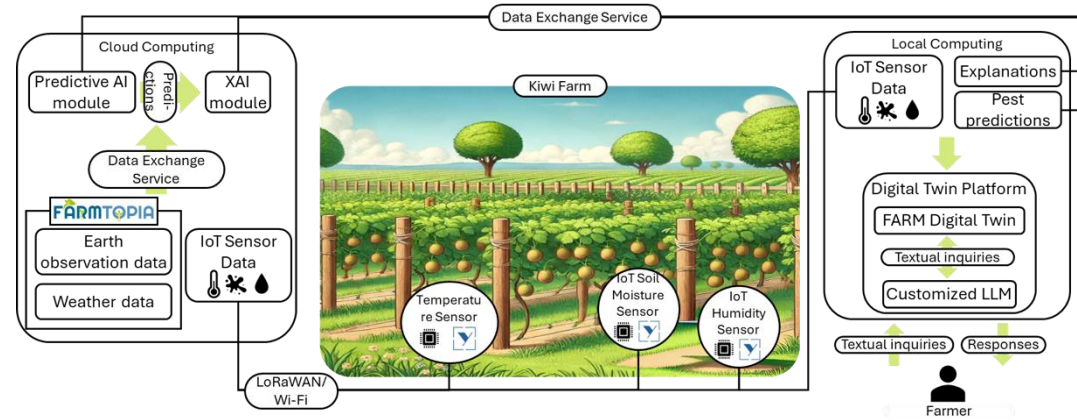


Designed for real-world use

Modular • low-cost • remote-ready • suited to small/medium farms • linked with FARMTOPIA

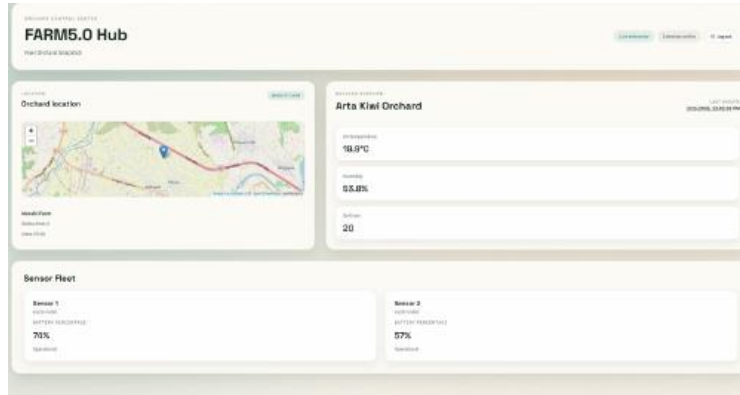
# Key features & impact

1. Real-time farm monitoring via modular IoT sensors (moisture, temp, humidity)
2. AI-powered predictions for irrigation and pest risk
3. LLM-based digital assistant for hands-free, natural interaction
4. LoRaWAN & edge computing for remote accessibility
5. Integration with Farmtopia's digital field book and data exchange



- 20% reduction in crop losses (pests)
- 15% increase in water usage efficiency
- Democratizing digital farming for small/medium farms

# FARM5.0 in practice



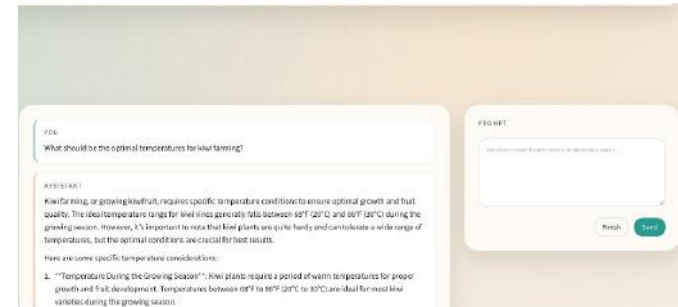
**Main dashboard**

## Scheduling support

Irrigation and crop-protection planning support are prepared through the FARM5.0 platform.



**Field sensor hardware**



**Digital assistant**

# Contact Us



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FARMTOPIA

Thank  
you

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 YTHION