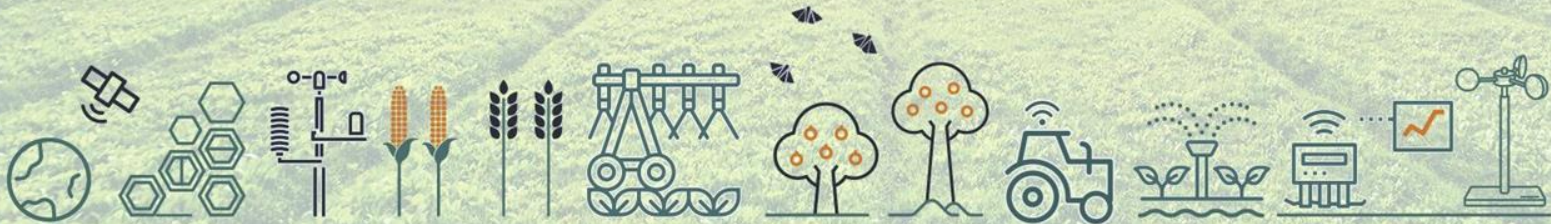


A G R O S



Critical Challenges Facing Pakistan's Agriculture Sector

15th largest
producer of
agriculture
overall

8th largest wheat
producer

5th largest cotton
producer

4th largest
mango and
sugarcane
producer

Challenges



- **Low Per Hectare Productivity:** Productivity significantly below global averages despite high rankings in production.



- **Crop Failures:** Frequent losses due to climate variability, pests, and diseases.



- **Water Scarcity:** Agriculture consumes 94% of Pakistan's water, yet irrigation inefficiencies persist.



- **Climate Change Impact:** 80% of agriculture is rain-fed, making it vulnerable to erratic weather patterns.

A data-driven approach is essential to overcome these challenges and unlock Pakistan's agricultural potential.

Introducing AiGROS: A Data-Driven Solution for Agriculture

Who We Are



- AiGROS is dedicated to revolutionizing agriculture by providing smart digital services that empower farmers to efficiently manage their fields, irrigation, crops, and profits.
- Enhancing food security and driving agricultural excellence in Pakistan through smart, sustainable farming solutions.

Our Mission



- Democratizing cutting-edge Agri-Tech through affordable subscriptions, transforming raw data into actionable insights via AI to reduce operational costs, boost profitability, and promote sustainable, healthy farming for all.

Key Impact



- Farmers report a 52% Electricity saving, 40% fertilizer saving and 45% reduction in water usage with AiGROS solutions.
- Driving measurable results: Saving resources, increasing efficiency, and empowering farmers.

 Global Reach: 10+ Countries

 Sensors Deployed: 15,000+ Sensors

 IoT Stations: 2,600+ Stations

 Empowered Farmers: 1,800+ Users

Join AiGROS in shaping the future of Sustainable Agriculture.

AiGROS Digital Ecosystem

Farming Companies

Seed Production Companies

Agri Input Companies

Agri Lending/Insurance Companies

Government/NGO Organizations



Satellite Monitoring



Cloud Data Storage



IoT Sensors



Machine Learning



Weather Analysis

Crop Loss Management

Supply Chain Efficiency

Traceability & Compliance

Maximize Visibility

Digitize Every Farm

AiGROS Cloud

Streamline Operations

Maximize Revenue

Minimize Risk

Minimize Cost

Yield Quality Improvement

Access to Risk Cover







Build Climate Resilience



Realtime Actionable Insights

AiGROS – A Full-Stack AgTech Organization

Transforming Agriculture with Data-Driven Insights

 T-IRRIGATE	AI-based irrigation optimization system.	Saves up to 45% water usage and reduces energy consumption by optimizing irrigation cycles.
 T-WEATHER	Smart weather station with 15-day forecasts.	Prevents frost damage with real-time alerts and improves planning through hyper-local weather predictions.
 YAPRAQ	Real-time plant sap nutrient analysis.	Boosts crop yields with precise nutrient management while reducing fertilizer costs by targeting exact needs.
 T-TRAP	Digital AI-powered pheromone pest trap.	Reduces pesticide costs by up to 30% and minimizes crop losses through early pest detection.
 T-EARTH	Satellite monitoring for crop and soil insights.	Provides actionable crop health maps for timely interventions and reduces field visits, saving time and resources.
 AGROMATIQ	Comprehensive farm management platform.	Streamlines operations with end-to-end data insights, enhancing resource efficiency and informed decision-making.

Advancing Sustainable Agriculture Through Technology

Climate Change and Resource Challenges: Rapid loss of resources due to unsustainable practices and global warming.

Our Approach

- Solar-powered IoT devices to reduce reliance on non-renewable energy.
- Real-time monitoring of water, energy, and soil health using IoT sensors.

Data Accessibility and Technology: Limited access to actionable agricultural data and high costs of technology adoption.

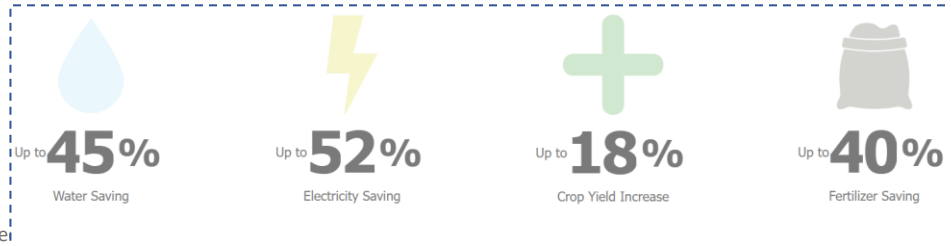
Our Approach

- AI-powered tools for resource optimization, tailored to local needs.
- Data-driven advisory services accessible via mobile apps in local languages.
- Collaboration with stakeholders (NGOs, governments) to promote adoption of advanced technologies.

Water Shortage: Agriculture consumes 70% of water resources with significant inefficiencies.

Our Approach

- Precision irrigation systems (T-IRRIGATE) to save water and reduce wastage.
- AI models that predict irrigation needs based on real-time field conditions.
- Improved water retention through crop residue management and cover crops.



**Aligning with
United Nations Sustainable
Development Goals (SDGs)**

Unlocking a Multi-Billion Dollar AgriTech Opportunity

- \$23 Billion opportunity in AgriTech, including precision farming and supply chain solutions.
- Agriculture contributes 23% to GDP and employs 37% of the workforce.

\$23 Billion

Total Addressable Market

TAM
Total market opportunity in AgriTech, including yield optimization, supply chain solutions, and precision farming.

\$7 Billion

Service Available Market

SAM
Realistic target market for AiGROS through precision farming, IoT solutions, and digital supply chain tools.

\$1.5–2 Billion

Service Obtainable Market

SOM
Achievable market share with 5–10% adoption of AiGROS solutions in the next 3 years

- \$23 Billion opportunity in AgriTech, including precision farming and supply chain solutions.
- Agriculture contributes 23% to GDP and employs 37% of the workforce.

- \$1.5–2 Billion achievable with 5–10% adoption in 3 years.
- Precision solutions can drive 20–30% yield increases and boost exports by \$3 Billion.

Why Choose AiGROS for Sustainable Agriculture?



We empower farmers with modern techniques and sustainable practices to enhance food security, boost productivity, and ensure a prosperous agricultural future..



Harnessing the power of AI, we transform raw field data into actionable insights, enabling smarter, data-driven decisions for farmers.



Our AiGROS Smart Assistant seamlessly integrates with Telegram and WhatsApp, providing real-time updates and support to farmers.



We design intuitive and user-friendly agricultural tools, ensuring quick adoption and effortless use for all farmers.



Our subscription-based solutions deliver affordable, scalable, and accessible technology tailored to meet every farmer's needs.

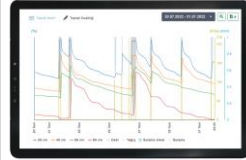


From installation to ongoing technical support, we offer comprehensive, on-field assistance to ensure seamless operations and maximum value.

Technologies



Sensors
(IoT)



AI
Platform



T-Brain
Gateway
(GSM/LoRa)



Smart
Assistant
(Telegram and
Whatsapp)



 T-WEATHER



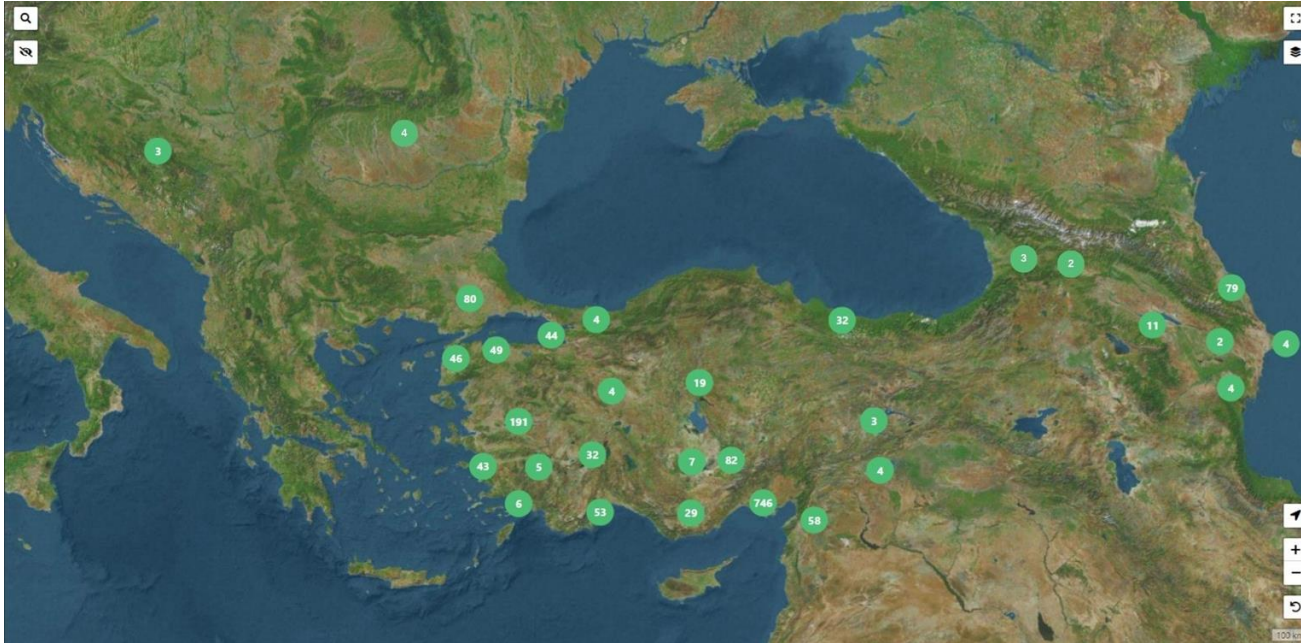
 T-IRRIGATE



 T-TRAP

Field Implementations – 2023 Season

2000 + Stations & 12000 + Sensor / Actuator



10 Countries*



200+ Clients



1500+ Active User



150.000+ Decare



30+ Crops



25+ Pest

*Türkiye, Bosnia-Herzegovina, Pakistan, Romania, Ukraine, Lebanon, Chili, Azerbaijan, Uzbekistan, Georgia

Thank You!