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International Commission on Irrigation and Drainage (ICID)



Mr S.P. Raja Kumaran
Mobitech Wireless Solution, India

**From Infrastructure to Intelligence:
The Future of Smart Irrigation and Water Management**

2nd Indo Global Irrigation Summit
24-25 June 2026, New Delhi India



From Infrastructure to **Intelligence**

The Future of Smart Irrigation and Water Management

Presented by



S. P. Rajakumaran Director of Sales & Marketing

THE NEXT CHALLENGE IN IRRIGATION

*Billions Invested in Infrastructure.
Now It Is Time to Maximize Its Value.*



Dams & Reservoirs



Lift Irrigation Systems



Canal Networks



Micro Irrigation Systems

WHY CHANGE IS NECESSARY

Emerging Global Challenges in Water Management



Water Scarcity

Increasing demand and limited supply



Climate Variability

Unpredictable weather patterns



Energy Costs

Rising operational expenses



Labor Shortages

Difficulty in manual field operations

THE EVOLUTION OF IRRIGATION



Manual Irrigation



Mechanized Irrigation



Micro Irrigation



Automation



Intelligent



INFRASTRUCTURE VS. INTELLIGENCE

Infrastructure Moves Water



Dams, Canals, Reservoirs, Pipelines, Pumps. The physical foundation of irrigation.

Intelligence Manages Water



Sensors, Connectivity, Analytics, AI, Automation. The brain that optimizes every drop.

THE INTELLIGENCE LAYER



TECHNOLOGY ECOSYSTEM

End-to End Intelligent Irrigation



Communication - LoRa Wireless Network



Automation - Irrigation & Pump Control



Monitoring - Soil, Weather & Water Level



Cloud Control - Mobile App & Web Dashboard

Business Opportunity

Modernize. Optimize. Maximum Value.



Reduced water losses
and higher efficiency



Real-time visibility and
data-driven decisions



Lower energy usage
and operating costs



Automated operations
and reduced labour
dependency



Proactive management
and improved outcomes



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INTELLIGENCE IN ACTION

Real Deployments,
Real Impact

FIELD SENSING & MONITORING



Multi-parameter sensors capture real-time field data.

- Water Level
- Flow
- Soil Moisture
- Rainfall
- Energy

IoT TELEMETRY & CONNECTIVITY



LoRaWAN® gateways ensure reliable, long-range connectivity.

- Wide Area Coverage
- Low Power
- Secure & Reliable

AUTOMATED VALVE CONTROL



Automated valves deliver the right water at the right time.

- Remote Operation
- Precise Control
- Higher Efficiency

PUMP AUTOMATION & CONTROL



Intelligent pump control for energy-efficient operations.

- Remote Monitoring
- Auto Scheduling
- Energy Optimization

SOLAR POWERED DEPLOYMENT



Solar powered, field-ready solutions for any terrain.

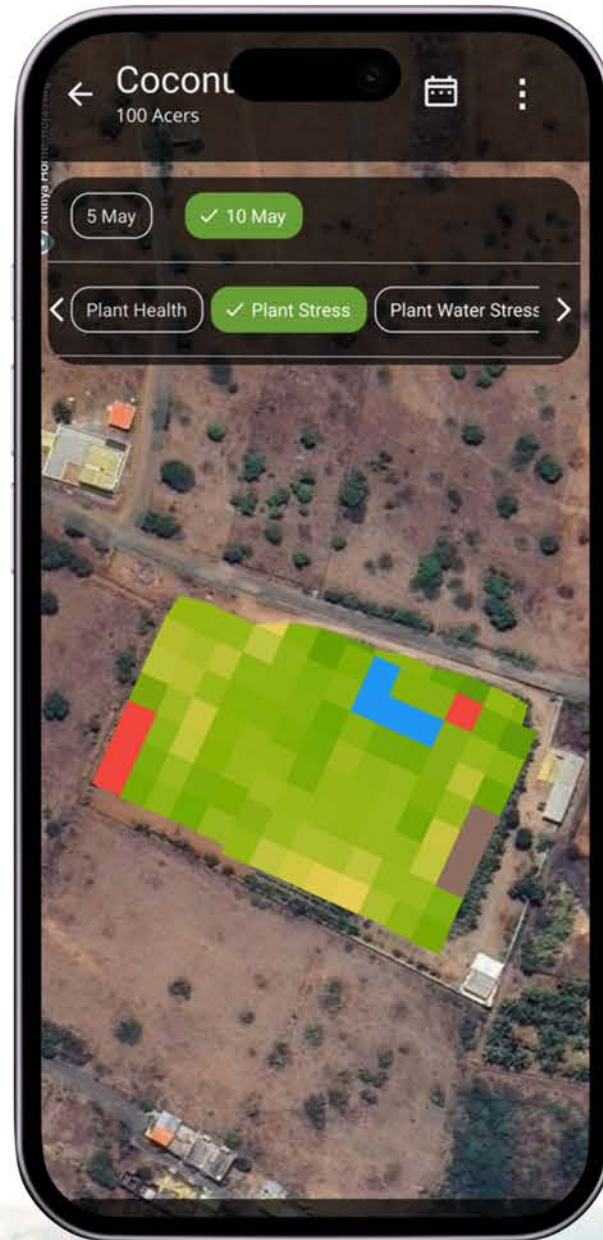
- Energy Independent
- Easy to Deploy
- Easy to Maintain

FROM SPACE CONNECTING TO SOIL

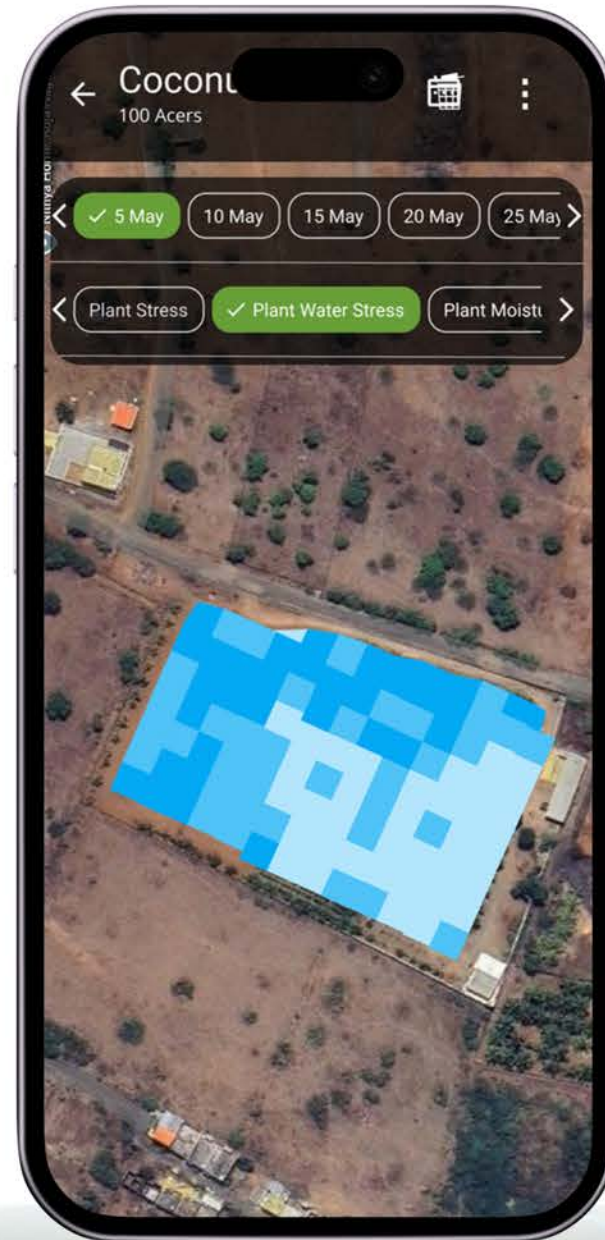
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-  Satellite Observation
 -  Crop Health Analysis
 -  AgTrace Platform Insights
 -  Mobitech Automation
 -  **Field Execution**



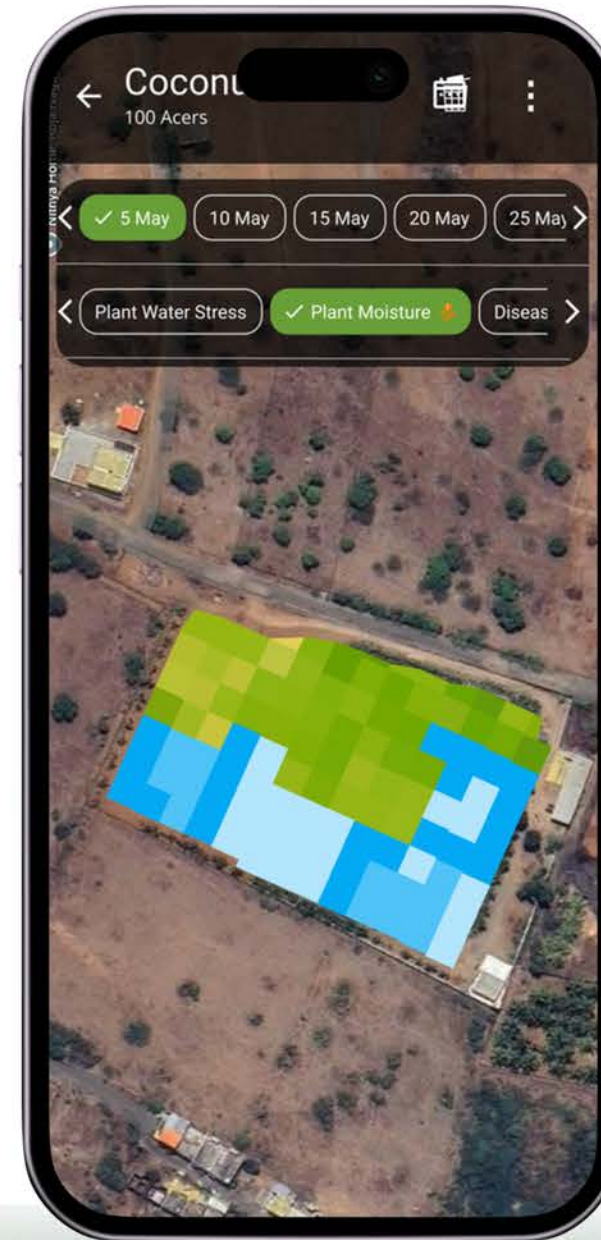
Ag Trace



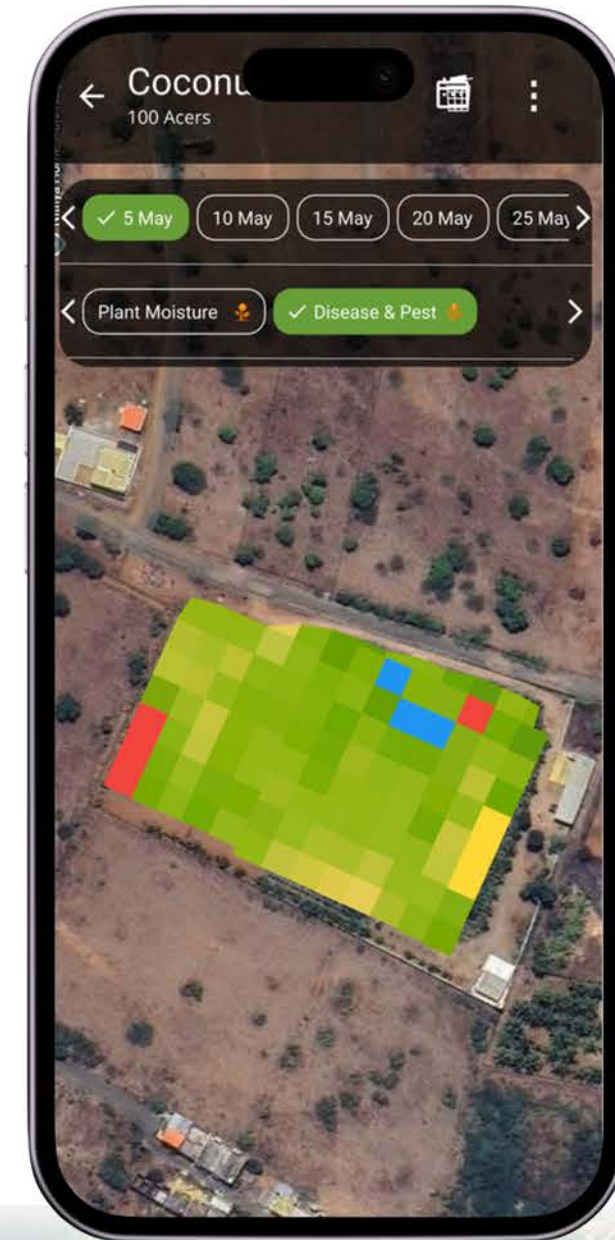
Plant Stress



Plant water stress



Plant moisture



Disease & Pest

Partnership for Impact

Combining **EPC Excellence** in Infrastructure with **Mobitech Intelligence** for sustainable water solutions

Together, we transform infrastructure into intelligent, responsive and future-ready water systems.



Thank you

*Infrastructure Delivers Water.
Intelligence delivers water security*

 www.mobitechwireless.in  sales@mobitechwireless.in  +91 98427 31759 | +91 99434 30000

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