Yuktix technologies

IoT for Agriculture Monitoring and Risk Management
Data is the new “Oil”

**Operations manager** - Vibration, Temperature, Current consumption of machine – Help in optimizing operations of a factory floor

**Doctor** - Need patient body temperature, hear beat, blood glucose levels in order to give him a prescription of medicine

**Investor** – Need data from Startup to evaluate if the Startup is worth investing

**Agriculture** – Need data from pre-harvest (on-field) and post harvest (after production)
Problem

• Absence of real time micro-weather, soil and water data from the farms and analytics leads to disease risks, poor production quality and poor resource usage.

Disease and Pest

- $7.7 billion loss due to pests in 2014

Improper storage and waste due to spoilage

- $13 billion loss due to post harvest loss

Weather Risk – Drought, Flooding

- 40% of all loans are to farmers

More water consumption

- 78% of water is used for irrigation

Food ban due to excessive chemicals

- EU Ban India Fruits – Loss of GBP 6 million

$2B loss for Seafood Industries in India

4. Food ban from EU
Solution

- Yuktix is creating next generation IoT platform combining hardware, software, and cloud to bring real-time visibility, analytics and AI to agriculture and fix the problem of poor resource utilization, wastage, production quality and disease prediction.
ICT Tools for Agriculture

- a) Irrigation control
- b) Disease and pest prediction
- c) Weather prediction
- d) Real-time weather information
- e) Hot-spot detection
GreenSense
Digital Assistant for Farming
Solar Powered Weather Station

Micro-Weather Capture
Product

- Our GreenSense IoT devices provide weather, soil and micro climate sensors for 24x7 agriculture monitoring needs.
- The IoT devices send critical variables like air temperature, humidity, soil moisture, Leaf Wetness, Rainfall 24x7 to a mobile or web dashboard for grower to **predict disease** like late blight in potato, Powdery and Downey Mildew in Grapes, Apple Scab in Apples, Tea blister in tea.
- GreenSense device also help plantation managers to take decisions backed by data like spraying of manure, fertigation and pesticide spray only when required thus **optimizing resources**.
- The ankiDB cloud software does data analysis and provides crop specific recommendations (disease prediction, weather forecast, satellite imagery and advisory).
- Disrupting traditional data acquisitions instruments industry.
ankiDB™ micro

ankiDB™ cloud
One cloud – multiple agriculture applications

GreenSense and Weather Station Dashboard

CryoSense, Deep Freezer and ColdSense

Tank Water Level Monitor - Australia
Team

Rajeev Jha (Founder)

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- 15+ years of Enterprise Tech
- Previously worked in Oracle, AOL, Citrix and couple of start-ups
- Graduate from Indian Institute of Technology, Kanpur and PG Diploma in Software Enterprise management from Indian Institute of management, Bangalore.

Shailendra Singh (Co-founder)

Shailendra@yuktix.com

- 7+ years of Work Experience
- Previously worked at Thinvent and Silverline EDA as embedded engineer.
- Robotics and UAV enthusiast.
- Electronics Graduate from UPTU, Lucknow, India.

Advisors

- Dr. BNS Murthy, Commissioner - National Horticulture Mission of India and formerly Principle Scientist at Indian council of Agriculture research, Bangalore.
- Dr. Sridhar Gautam, Indian council of Agriculture research, Bangalore.
- Dr. NB Singh- Dean, College of Post Graduate Studies, Central Agricultural University, Imphal, India.
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