Syed Awase Khirni

RESEARCHER | ENTREPRENEUR | TECHNOLOGY COACH

@sak008 | sak@sycliq.com | +91. 9035433124

Syed Awase earned his PhD from University of Zurich in GIS, supported by EU V Framework Scholarship from SPIRIT Project (www.geo-spirit.org). He currently provides consulting services through his startup www.territorialprescience.com and www.sycliq.com. He empowers the ecosystem by sharing his technical skills worldwide, since 2008.

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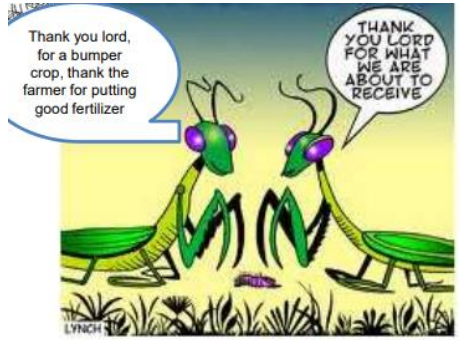
Original Series

Problem: AgriDomain (Phase-I)



Original Series

Problem: AgriDomain(Phase-I)

Agronomic challenges

- Unpredictable yield due to vagaries of nature.
- Managing profit margins & rising input costs
- Need of deploying scientific methods for sustainability.
- High fertilizer costs
- High labor costs

Original Series

Solution

- Real-time monitoring solution
- Intelligent geoanalytical engine to predict potential scenarios and recommend curative actions.
- Custom on-demand mapping solution on hand-held devices
- Alerts and messaging
- Centralized data logging
- Farm assessment and certification
-

Original Series

Farm to Fork Value Delivery

1

- Extremely sensitive to even small changes
- in weather.
- Automated maintenance of dissolved oxygen.
- Alerts on sabotage to fields.

Monitor the produce/vehicle while being transported to storage
Ex: wine

2

3 Continuous monitoring in controlled environments.

Sell based on market data, $ value, produce category alerts. 4

5

Monitor the produce/vehicle while exporting, distributing, selling

1

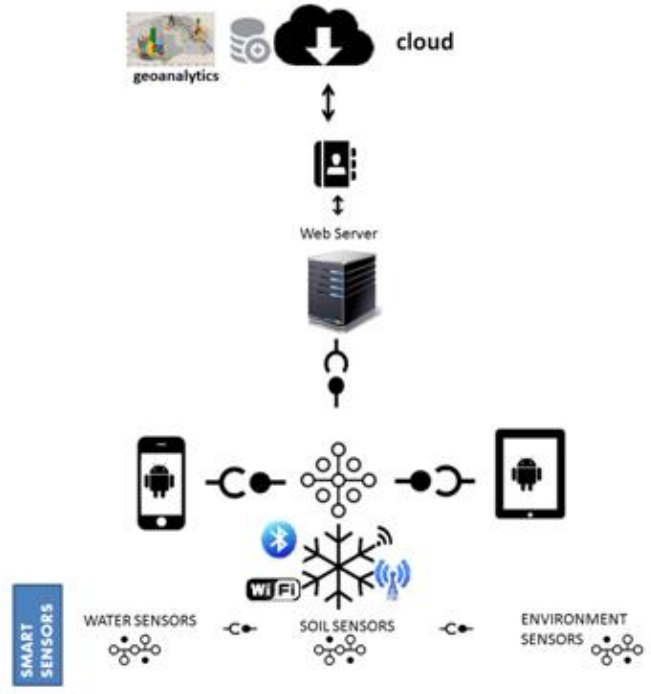
- Increase farm yields
- Reduce input costs like fertilizer usage.
- Optimize resource usage like water
- Customized Alerts and Messaging for vital parameters

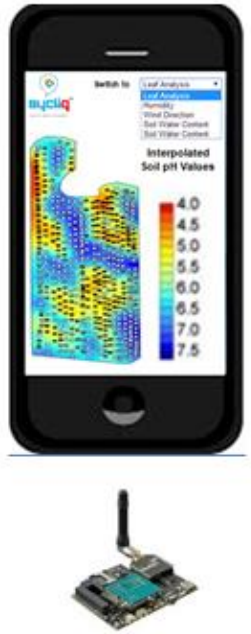
Value delivered by SycliQ @ each stage in value chain

Original Series

SYCLIQ FRAMEWORK

Systems for crop life cycle intelligence - SycliQ™





Modular Hardware Sensor Platform + Intelligent Software Cloud Platform = SycliQ™

HW

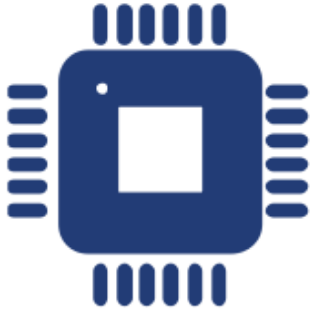
SW

Original Series

TERRITORIAL PRESCIENCE™
provoke thought, invoke action

Modular H/W platform - Sycliq One™

HW



Sensors supported

- Soil : pH, Temperature, conductivity
- Environment: Temperature, wind direction, wind speed, rain fall, pressure, CO2,CO, NO2,02, Solar radiation
- Plant: Leaf sensor, fruit diameter, trunk diameter
- Water: Dissolved oxygen, NPK, pH, temperature
- Location : GPS

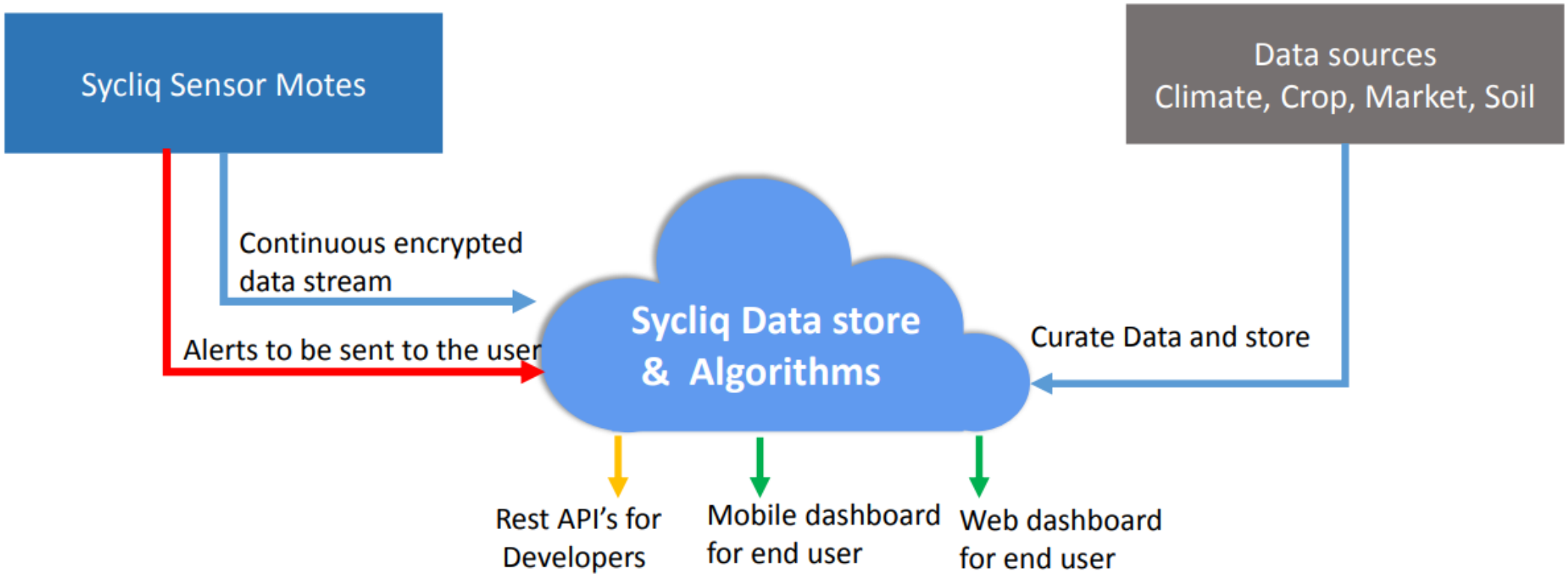
Electronics

- Sycliq One™ – Base Modular Hyper local Sensor platform.
- Continuous sensor data recording on local storage and transmit to cloud.
- BT, ZigBee, GPRS with data plan available.
- Wide choice of rugged sensors for harsh weather conditions.
- Battery with solar\AC charging units.
- SDK for developers, Dynamic firmware updates.

Original Series

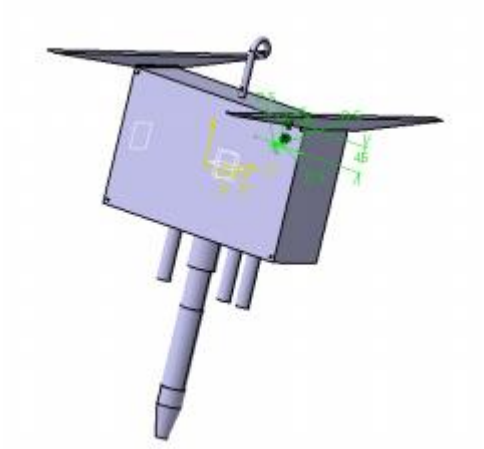
Intelligent cloud SW platform - Sycliq Cloud

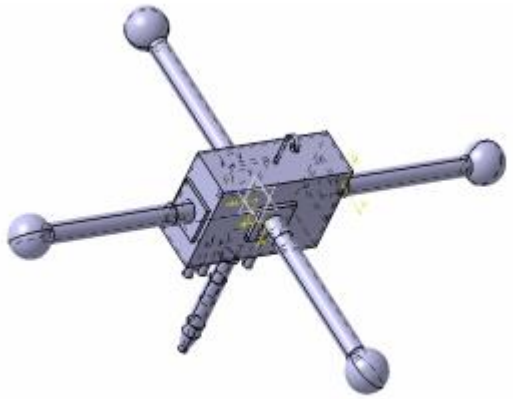
SW



Original Series

Industrial Design –SycliQ Sensor motes





- Rugged IP65 compliant sensor motes
- Industry specific form factor Ex:AgriOne: Agriculture, AquaOne: marine farming, WeatherOne
- Multiple Modes of operation stationary in field, mobile with human and mountable on vehicles. Works for perennial \Non perennial crops
- Modular sensor attach\detach mechanism for end user.
- Easy serviceability by end user

Original Series

Precision Farming

MARKET SEGMENT

*by 2018 published by MarketsandMarkets

Original Series

TERRITORIAL PRESCIENCE™
provoke thought, invoke action

Competitors

Agribusiness Market Segment

SycliQ (AgriOne)

- Real-time sensing platform for capturing crop health data and seasonal progress
- Predictive intelligence engine for potential scenarios and remedial actions
- Custom on-demand mapping interface and visualization
- A comprehensive knowledge base for agriculture domain
- End-to-End value chain solution framework.
- End to End data encryption
- Bottom up approach- High Data Accuracy.

Competitors

- Climate.com – crop data and crop insurance (acquired by Monsanto) – Top down Approach
- Reuters market lite- commodity market place for farmers alerts (Thomson Reuters)
- Crop metrics (LLP) – crop health data and seasonal progress with visualization.

Original Series

Target Markets: Phase I

Agridomain

- Plantations
- Horticulture
- Aquaculture
- Sericulture
- Ripening and processing centers
- Cold Storage Units
- Corporate Farmers
- Cold Storage Supply Chains
- Farm Cooperatives
- Hatcheries

Original Series

Team

Dr. Awase Khirni Syed

- Founder | Chairman|CTO
- Ph.D (Univ of Zurich, Swiss), M.E (BITS,Pilani)
- Full Scholarship from EU V Framework SPIRIT- www.geo-spirit.org
- 17+ year of experience in internationally acclaimed academic research
- Consultant to executive management at industrial organization – Thomson Reuters, ABB, Reflexis Inc.
- Specialized in
  - Academic research and business innovation processes
  - GIS/GIR –geographic information retrieval engines, Digital cartography, spatial analytic platforms.
  - AI to UI hands-on technology evangelist imparting code driven session to various software multi-nationals.

Azeez Al-Asaad Syed

- B.Tech (ECE)– JNU
- **Part-time contributor for software development and cloud platform**
- 7+ years of experience with Thomson Reuters, TekSystems, Indicom
- Specialized in
  - Agile software development
  - Full stack development experience
  - Angular/React Experience

Mr. Ravindra Babu Alla

- M.Tech (IIIT-Bangalore)
- Around 9 years of experience in embedded systems and software development building intel's next generation platforms
- Part of innovation group building demos for CES, IDF
- **Part-time contribution for hardware development platform.**
- Windows/android development
- Windows azure cloud development

Original Series

TERRITORIAL PRESCIENCE
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Revenue Model

Subscription

- Basic - $ 500 signup + $200/month for data capture frequency of 1 hour.
- Regular - - $ 750 signup + $400/month for data capture frequency of 15 min.
- Professional - - $ 1000 signup + $600/month for data capture frequency of 1 min.

Licensing

- Intellectual Property Licensing.
- Data Licensing for Crop Insurance Companies.

outright sell, through channels like co-operative societies.

Original Series

GO TO MARKET

- Hardware sourcing and marketing : 0.5 million USD
- Field testing across various geographies and development 200k USD

Original Series

CHALLENGES

ENGINEERING

- Sensor Network Engineering and Installation/Maintenance
- Environmental parameters affecting data transmission in real-time.
- Low battery power
- High costs of setting up sensor network infrastructure

Design

- Robust design to sustain challenging environmental conditions
  - Basic module
  - Regular module
  - Professional module

Original Series

We’re Hiring

- Looking for fresher's who are interested to make a career in niche technology skillsets, we will train you personally to get the job done.
- Looking for agriculture majors domain consultants or fresh graduates with m.sc(agriculture) qualifications.

Original Series

Vision

To provide real-time data-driven crop health insights to reduce risks and increase yields 3x for agribusiness

Original Series

Mission

Create universally accessible configurable solutions that leverage hyper-local real-time sensor platform to provide cyclic data insights across domains.

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