



AgriTechs

Automated Farming Assistance for
Blueberry cultivation in Japan.



BUSINESS CASE

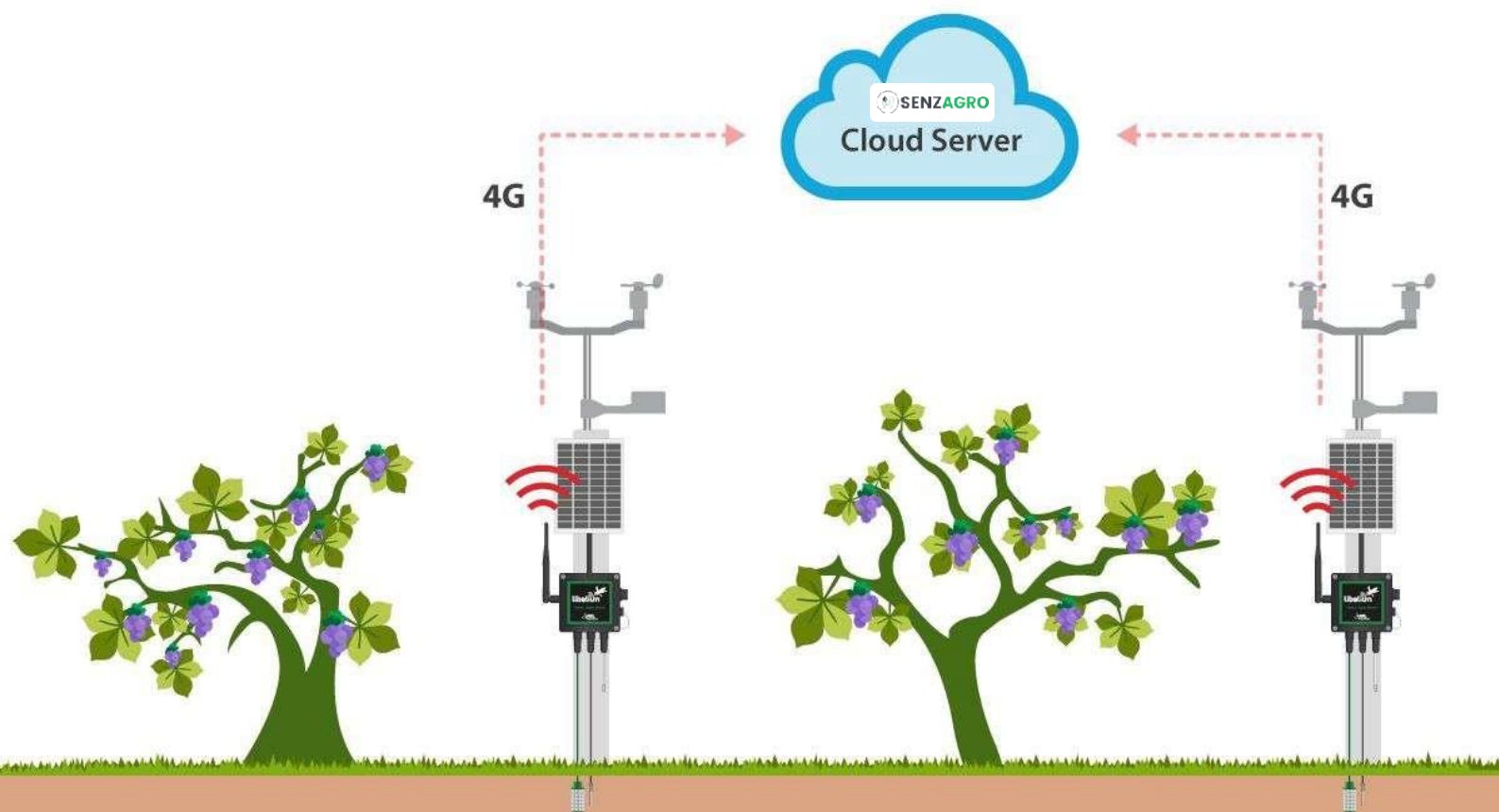
A well-liked and delicious fruit with the potential to control blood sugar levels, enhance heart and brain health, and contain few calories is blueberries. Frequently promoted as a superfood, blueberries are a fantastic source of several vitamins, healthy plant components, and antioxidants. In addition to producing and selling their produce, our client ran a blueberry-based tourism farm where visitors could partake in berry-plucking activities and take the harvested produce home with them. Such plantations need regular inspections to make sure the berries are kept under ideal conditions, free of pests and disease. This calls for a huge workforce, which raises prices.

SOLUTION

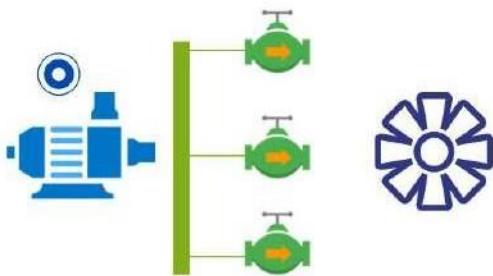
Due to a labor shortage, the client needed a farm management system that would automate their irrigation system, enable real-time monitoring of the farm and maintenance of optimal conditions via physical parameters, and provide alarms in the event of unusual variations of any parameter.

All necessary requirements are simply met by AgriTechs's smart farming technology. AgriTechs's sensory devices gather data on physical factors (such as humidity, temperature, light intensity, soil temperature and humidity, and EC) and present a produced graph that is accessible at any time via the company's desktop or mobile applications. The data may also be used to forecast yield and can be analyzed with AgriTechs's crop-specific intelligence to provide suggestions for greater quality and quantity of yield, as well as to recognize situations leading to pest or disease infections and obliterate them before damage. The user would receive an alert through SMS and the app in the event of a reading abnormality.

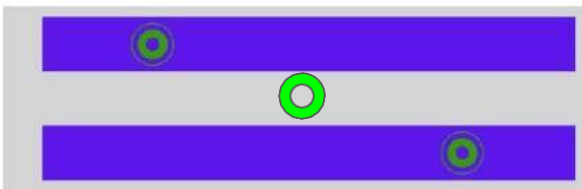
Their irrigation systems can be fully automated, wherein certain conditions activate irrigation, such as if the soil moisture falls below 30%, or automated in a programmed fashion, wherein the fields are watered at specific times for a specific period. The client can discreetly maintain their farm with less labor even while it is busy with tourists thanks to the ability to monitor and manage all of these operations in real-time from anywhere using a phone.



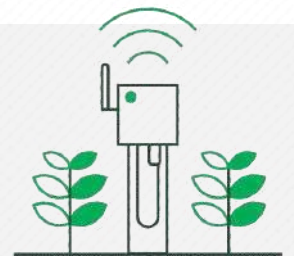
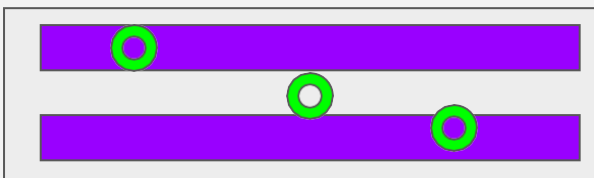
Upload your farm to Cloud



- **Irrigation and Ventilation control**
 - Motor control (individual node required)
 - Valve control (individual node required)
 - Ventilation (Misters/Foggers) control (individual node required)



- **Growth chamber monitoring**
Recommended 1 X Sensor Units for every 2000 Sqft
 - Temperature
 - Humidity
 - Soil moisture level
 - Soil EC level

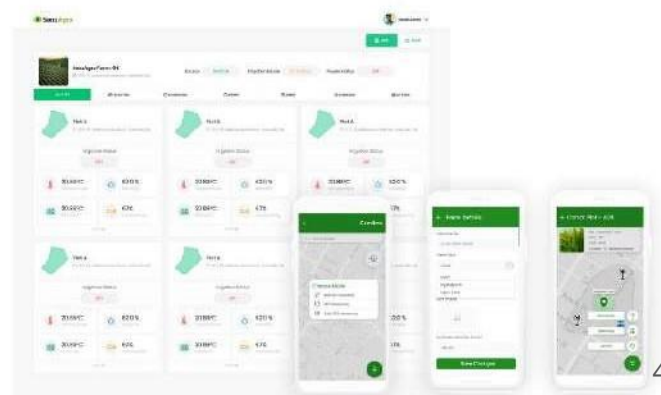


Keep your plants in the finger tip

- Keep a eye on the nursery beds helth.
- Real-time plant soil and environment monitoring.
 - Real time poly tunnel internal heat monitoring and alert
 - Real time plant water requirement monitoring and alert
- Remote irrigation cycle management.
- plant health factor monitoring
- Crop verity and age specific instruction.
- Mobile, Web and SMS applications.
- Manage multiple tunnels in one platform.

Long term

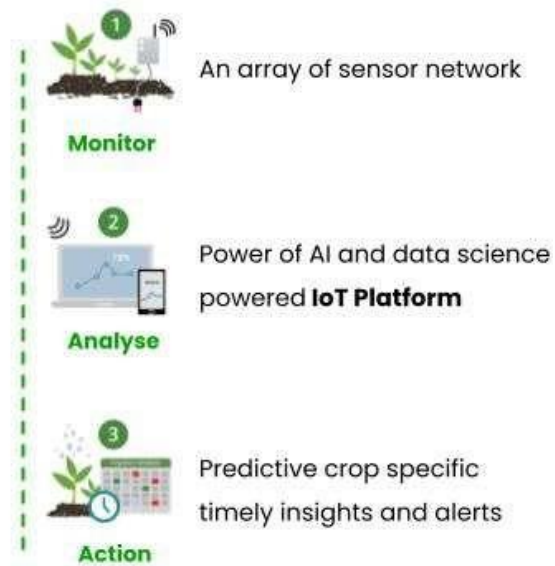
- Crop modelling and AI based yield predictions.



AgriTechs DIGIPLANT sensor for Monitoring



AgriTechs



ACTION TAKEN

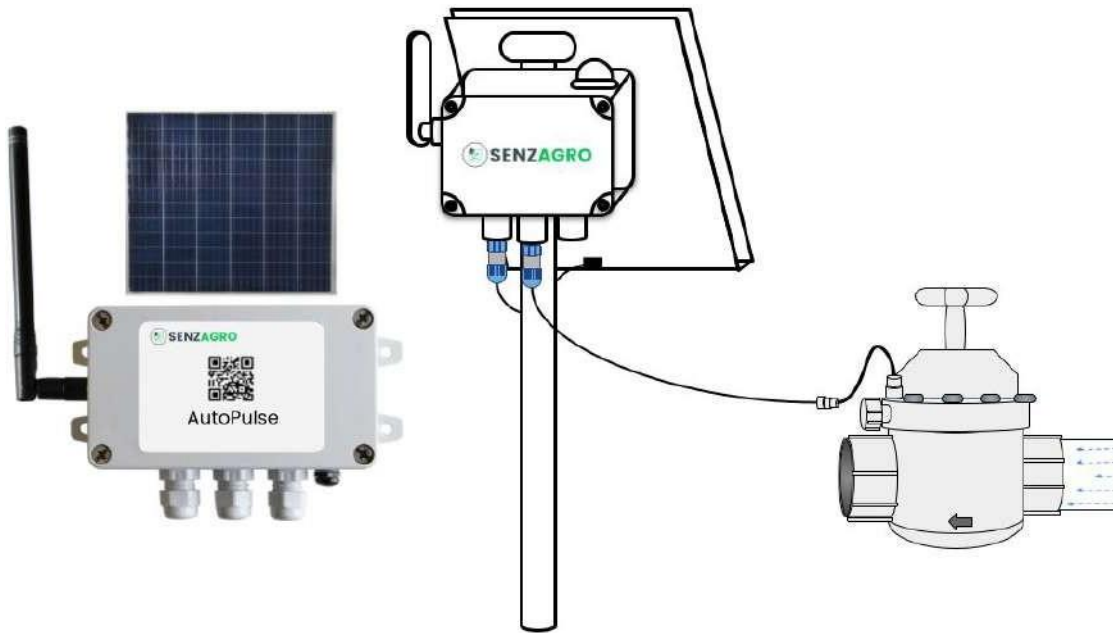
Within the client's plantation, AgriTechs's sensory units were placed and calibrated. All physical parameters were tracked in real-time to make sure that the blueberry crops received the right amounts of heat, pH, water, EC, and other parameters, all physical parameters were tracked in real-time.

Additionally, the data from the sensors was employed in learning how various applications of physical parameters enhance yield quantity and quality efficiently. The client had access to all the data through the application-generated report and was notified anytime there was a change

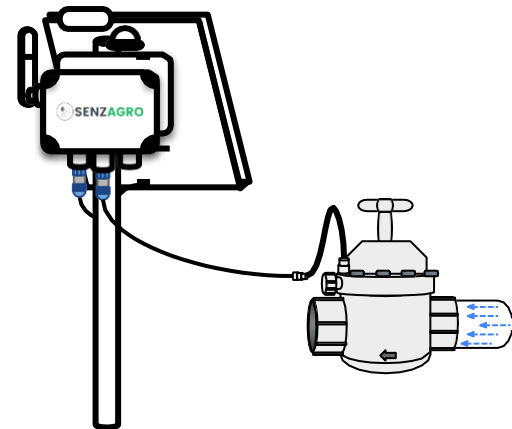
Regardless of the user's location, the client's irrigation systems were automated and continuously checked using the given application. The application stores and shows all irrigation-related data, including timestamps, histories, frequencies, and amounts, to users.

Tourists were never bothered when they participated in events because operations were carried out discreetly.

AgriTechs Auto Pulse for Automation



- Remotely control any greenhouse equipments,
 - Irrigation pumps
 - Venturi systems
 - Irrigation valves
 - Pad and Fan
 - Foggers/misters and more
- 24/7 remote access for your polytunnel
- Perfect timely action
 - Control irrigation
 - Fertigation
 - Ventilation
- Access via web and Mobile
- Automation based on AgriTechs sensors.



**AgriTechs Auto Pulse
Controller**



**AgriTechs DIGIPLANT
sensor**

- Realtime polytunnel monitoring sensor node,
 - Measure temperature
 - Humidity
 - Soil/Medium moisture
 - EC
 - Light (lux)
- 24/7 remote monitoring
- Perfect timely alerts and advice on
 - Irrigation over watering /under watering
 - Fertilizer monitoring
 - Environment overheat and high humidity
 - Light availability monitoring
- Send instructions via Mobile app, SMS
- Instruct AgriTechs controller units

AgriCore Farm Manager System

Upload your farm to cloud



Farmer



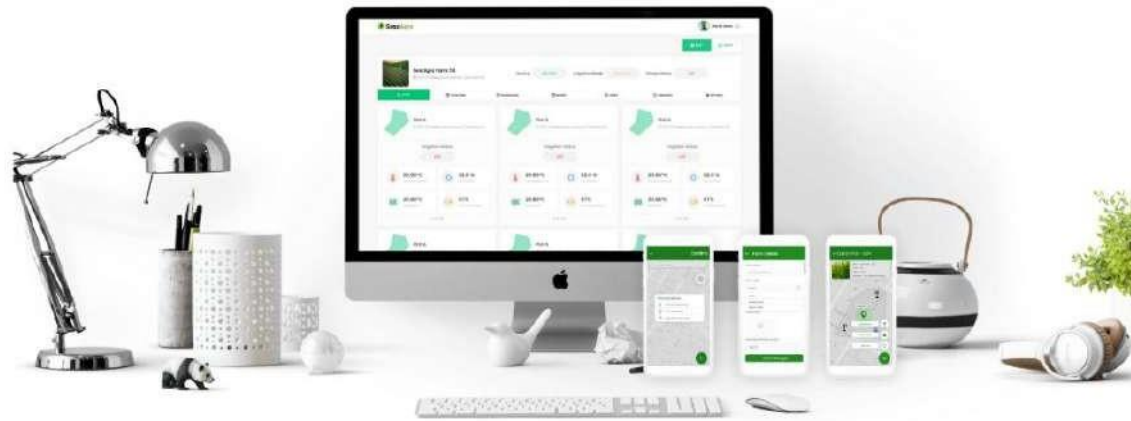
Crop



Land



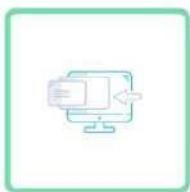
Field officer



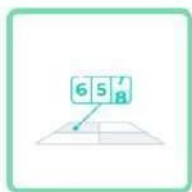
AgriTechs farm managers a centralised farm management platform. It is an ideal solution to simplify day to day farm operations, manage your data, employees, resources and eliminate spreadsheets with the in built major functionalities to manage your farm.

Beyond AgriCore platform supporting SenzAgro sensor and controllers management, It is a digital agriculture hub to save time, easily share field observations, and make better decisions. keep real time data updates about Farmer, Crop, Land and Field officer records. Farm owners can remotely manage multiple farms and plots by uploading your farm into cloud.

Stay connected with your farm 24/7



ALL INFORMATION
COMBINED



KEEP RECORD OF
PLANT POPULATION



FIELD HEALTH
MONITORING



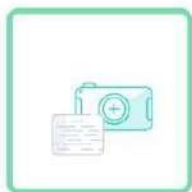
INSECTS AND DISEASE
TREATMENT



TASK
MANAGEMENT



CROP GROWTH
PROBLEMS



ON-DEMAND
IMAGERY



SMART FIELD
SCOUTING



ACTIONABLE
INSIGHTS



CROP-SPECIFIC
MANAGEMENT PLANS



RESULTS

AgriTech's system really satisfied the client. With the help of the system's crop-specific intelligence, automated irrigation cycles allowed farm workers to save time and concentrate on other crucial tasks. Sensors also provided real-time data that was used to manage all physical parameters and monitor crop conditions, predict and forecast water requirements, and track the overall operation of all the polytunnels from anywhere using mobile devices. As a result, the amount of labor needed was greatly reduced.

As a result, the berries were given a better growing environment, which led to a larger crop of fruit of higher quality and more visitors to the farm because of its excellent reputation. AgriTechs works to improve the system through the data it receives and ultimately offers the most intelligent solutions to its clients in the future.





Get In Touch



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