

## Success Story

### Harvesting Data Successfully Using Microsoft Azure Cloud

*How a gourmet greenhouse industry leader achieves 60% OpEx reduction and 20% crop yield enhancement*

Family-owned for 65 years and now an industry leader in the gourmet greenhouse industry, our client is a North American grower and distributor of freshly produced fruits and vegetables such as tomatoes, peppers, cucumbers, and strawberries. The company is known for introducing innovative growing techniques that enable it to produce high-quality, flavorful produce year-round.

## Challenges

The client analyzed the performance of its labor force across different farms, but their existing solution lacked scalability and real-time processing because multiple vendors managed data on-premise.

Lack of data uniformity caused inconsistencies and an unreliable view of insights

No real-time data analysis impacted critical decision-making and efficiency

Data collection from multiple points and processing was manual and time consuming

## Delivered

Since Xoriant brought deep data expertise with IoT and Microsoft technologies like Azure Synapse and Power BI, the client joined hands to design a unified data model for effective, reliable reporting.

### Developed

A cloud data warehouse for seamless data migration

### Deployed

A solution with an option to add data from more farms into Synapse

### Delivered

Real-time telemetry data of all the farm and alerts on pre-defined business rules

### Simplified

Real-time data fetch from multiple locations using Azure IoT pipelines

### Improved

Insight visibility on labor performance across farms using Power BI-enabled dashboard

## Business Value



### Enhanced

Crop yield by 20% with near real-time reporting



### Slashed

OpEx by 60% because of low system maintenance costs



### Achieved

An improved response time to potential issues from 2-7 days to 5-15 minutes

## Technology Stack

**Azure IoT Hub, Azure Stream Analytics, Cosmos DB, Function App, Azure Synapse, Power BI, Pager Duty**

Xoriant provides advanced technology solutions and software development services for global banks, software product companies and F500 market leaders. Based in the U.S. with 17 global offices and 5000+ engineering professionals, Xoriant demonstrates exceptional experience in banking and finance infrastructure modernization and cloud migration. We deliver expert digital engineering, as well as offsite and offshore services, across high tech, healthcare, pharma, industrial manufacturing, telecom, and automotive sectors. Customers credit technological innovation and delivery excellence for our shared success over three decades.