# Tiger Analytics

A Global Food and Beverage Leader **Saves $17+ Million Annually by**

Transforming Supply Chain with Advanced Analytics
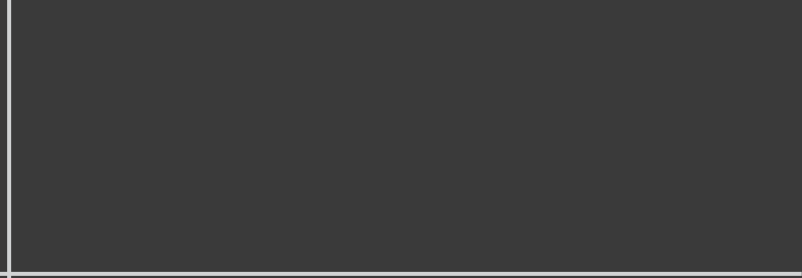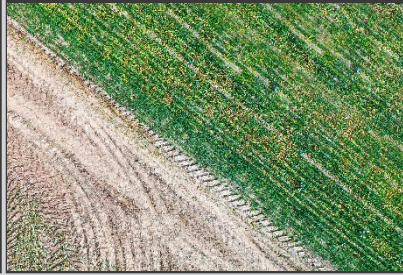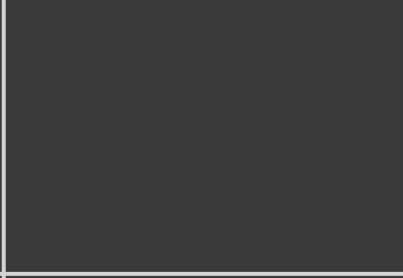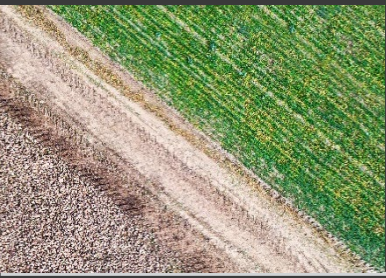
A
Summary

Optimizing operations
while advancing
sustainability efforts.

A global food and beverage leader sought to
transform its supply chain with a
comprehensive data foundation to drive
operational visibility and intelligence.

The goal was to optimize warehousing,
distribution, and demand forecasting, and
ensure quality assurance while advancing
sustainability efforts across their operations.

The Background

Our client, a global leader in the food and beverage industry, partnered with Tiger Analytics to transform their supply chain for greater efficiency, service excellence, and enhanced sustainability.

Using advanced analytics, we built a robust data foundation to enable end-to-end visibility and decision intelligence across key areas such as intelligent warehousing, dynamic route optimization, and customer service.

The client could make data-driven, resilient, and sustainable supply chain decisions by leveraging solutions such as demand forecasting, crop growth monitoring, and quality assurance using computer vision.

Our Solution

↗ **Unified Data Model and Frameworks:** Built a reusable data model to integrate data from multiple sources, in addition to automated DevOps processes and a self-service portal for streamlined data management and governance.

↗ **Warehouse Management Intelligence:** Developed a near real-time Intelligent Warehouse Management System (IWMS) dashboard, enabling advanced KPI reporting and visualization for efficient warehouse operations across multiple sites.

↗ **Order Visibility and Risk Prediction:** Established end-to-end visibility for order status, enabling predictive risk identification and providing data-driven recommendations to mitigate delays and optimize delivery.

↗ **Optimized Distribution Center Selection:** Created a model to determine the optimal distribution center for sales zones, factoring in historical data, cost, and capacity, along with scenario planning for different constraints.

↗ **Automated Planogram Compliance:** Built a machine-learning solution and mobile app for real-time planogram compliance auditing, enhancing shelf visibility and product availability.

↗ **Crop Monitoring and Yield Prediction:** Leveraged satellite imagery and machine learning to assess crop quality and predict growth stages with a dashboard for tracking key metrics and crop development.

↗ **Computer Vision for Quality Assurance:** Developed a real-time, computer vision-based solution to optimize potato peeling inspections, improving accuracy and adjusting parameters automatically.

↗ **Sustainability Impact Analysis:** Provided sustainability metrics for manufacturing operations, delivering cost-impact analysis and dashboards to track plant performance and the financial impact of sustainability efforts.

Value Delivered

Cost Optimization in Distribution: Optimized distribution center selection through scenario planning and cost impact simulations, leading to an estimated 4% reduction in shipping costs.

Operational Efficiency and Cost Savings: Enabled unified tracking and real-time visibility across supply chain KPIs, enhancing decision-making speed and operational efficiency, resulting in annual cost savings of approximately $17 Million.

Enhanced Inventory Management and Sales Uplift: Developed a streamlined ordering process that minimized overstocking and unsaleables, enhancing product availability and driving higher sales.

Risk Mitigation and Customer Satisfaction: Delivered predictive risk insights for potential shipment delays, allowing for proactive issue resolution which reduced penalties and overall delivery times, improving customer satisfaction.

Automation in Compliance and Quality Assurance: Automated planogram compliance audits and potato peeling inspections, reducing time and manual effort by over 75% and significantly minimizing errors, improving speed and accuracy across global operations.

We provide certainty to shape a better tomorrow

Tiger Analytics is a global leader in AI and analytics, helping Fortune 1000 companies solve their toughest challenges. We offer full-stack AI and analytics services & solutions to help businesses achieve real outcomes and value at scale. We are on a mission to push the boundaries of what AI and analytics can do to help enterprises navigate uncertainty and move forward decisively.

Being a recipient of multiple industry awards and recognitions, we have **4500+** technologists and consultants, working from multiple cities in 5 continents.

Tiger Analytics