

TAVANT

**DRIVING INNOVATION
FOR A LEADING
AGRICULTURAL
COOPERATIVE**

*How Tavant Enabled Scalable,
Data-Driven Solutions*



THE CLIENT AND THE CHALLENGE

A global leader in agriculture, dairy, and animal feeds, the client empowers farmers and retailers with cutting-edge solutions and data-driven insights. However, fragmented data systems and siloed platforms limited their ability to drive precision agriculture and sustainability initiatives. Their precision agriculture platform struggled with data accessibility and collaboration, making it difficult to develop intelligent applications for growers. Additionally, their sustainability platform faced challenges in integrating diverse data sources, including IoT sensors, satellite imagery, and weather systems, to deliver actionable insights for improving profitability and environmental impact.

THE SOLUTION

Tavant partnered with the client to build scalable, AI-driven platforms that modernized data accessibility, integration, and analytics across precision agriculture and sustainability initiatives. The precision agriculture solution unified data silos, improved collaboration, and enabled real-time insights for growers and retailers. Meanwhile, the sustainability platform integrated diverse data sources and AI models to enhance supply chain transparency, optimize decision-making, and drive measurable environmental impact.

THE IMPACT

By centralizing and integrating agricultural data, the client enabled faster, smarter decision-making for farmers and retailers. Data retrieval times were reduced to under a minute, accelerating planning and analysis. AI-driven insights improved risk mitigation, operational efficiency, and supply chain transparency, while geospatial visualization enhanced field operations execution. The sustainability platform strengthened connections between farm-level practices and global sustainability goals, creating a more resilient and profitable agricultural ecosystem.



PRECISION AGRICULTURE PLATFORM

- ▶ Built a cloud-based repository for unified field data (soil, yield, prescription, tissue samples).
- ▶ Enabled seamless data sharing for growers, sellers, and AgTech specialists.
- ▶ Integrated elastic search for near-instant historical data retrieval.
- ▶ Delivered geospatial mapping tools for precision farming.

SUSTAINABILITY PLATFORM

- ▶ Integrated IoT analytics, satellite data, and AI models for deeper insights.
- ▶ Developed AI-driven soil analytics to enhance agronomic decision-making.
- ▶ Improved supply chain transparency with predictive sustainability insights.
- ▶ Equipped farmers with tools to mitigate climate and market risks.

