



Revolutionizing Agriculture Planning:

Altimetrik's Agile Solution Delivers Operational Efficiency and Forecasting Precision



Client: US based produce grower, packager and seller



Efficiency Boost



Cost Savings



Capacity
Optimization



Improved Collaboration





Sustainable Growth

Key Highlights



Case Study

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Background

The client, a prominent player in the agriculture industry, aimed to modernize their planning capabilities to overcome manual processes, outdated technology, and scalability limitations. The company engaged Altimetrik to revamp their planning framework for enhanced agility and efficiency.

The objective was clear: deploy advanced planning solutions to optimize resource utilization, elevate decision-making, and foster sustainable growth. Leveraging state-of-the-art technology and innovative strategies, the company sought to streamline planning processes, foster crossteam collaboration, and position themselves for future expansion.

Altimetrik undertook the challenge by developing a long-range planning simulator to forecast crop planting across greenhouses for the next 5 years. Additionally, a short-term yield forecast tool was crafted to predict yield over a 6-week rolling period. The overarching aim was to empower the company with predictive capabilities, enabling informed decisions, efficient resource allocation, and successful business outcomes. With a focused vision of enhancing operational efficiency and driving growth, the client embarked on a transformative journey, partnering with Altimetrik to harness modern technology and predictive analytics.



Pain Point

The client faced significant challenges with their existing planning tools, including lengthy simulation run times and manual data management processes. Over the past decade, reliance on a proprietary data science team to manage the outdated platform limited innovation and responsiveness. To streamline operations and free up resources for new projects, the client urgently sought to reduce time-to-predict and enhance responsiveness without disrupting ongoing operations.

Key Objectives



Achieve Scalability & Replicability

Ensure the solution can scale to accommodate future growth and be easily replicated across different environments or business units.



Future-Readiness

Develop the solution with an eye toward emerging technologies and industry trends, ensuring it remains relevant and adaptable to evolving needs.



Increase Speed of Delivery

Implement processes and technologies to accelerate the delivery of features and updates, enabling faster response to business requirements.



Facilitate Ease of Experimentation for Large User Base

Design the solution to allow for seamless experimentation and testing, particularly for a large user base, enabling rapid iteration and innovation.



Establish Well-Organized, Consistently Written, and Modularized Code

Ensure the codebase is well-structured, consistently written, and modularized, facilitating easier maintenance, updates, and onboarding of new team members.



Enhance Traceability and Model Tracking for Transparency

Implement mechanisms to track changes and updates to models and data, ensuring transparency and accountability in decision-making processes.



Ensure Compliance and Meeting Security Standards

Adhere to industry regulations and security standards, ensuring the solution is compliant and robust against potential security threats.



Reduce Human Effort & Intervention

Automate repetitive tasks and streamline workflows to minimize manual intervention, improving operational efficiency and reducing human error.



Implement Metadata-Driven and Complete Configurability

Utilize metadata-driven approaches and provide comprehensive configurability options, offering greater flexibility and control over the solution's behaviour and settings.

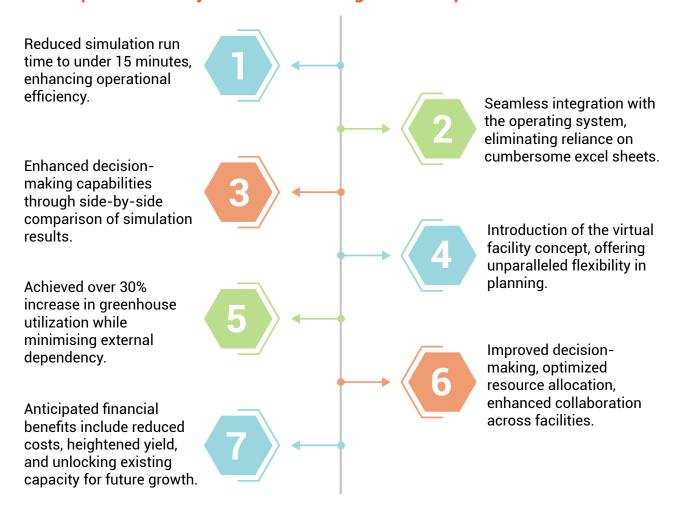




Outcome

Altimetrik's intervention led to a transformative outcome, establishing a distinct separation between data engineering and core data science components. This architectural refinement streamlined operations, empowering the data science team to focus on value-added tasks rather than routine maintenance. Moreover, the implementation of a well-organized, consistently written, and modularized codebase shortened the learning curve for new data scientists, facilitating quicker onboarding and proficiency.

The implementation yielded a host of significant improvements:



In summary, Altimetrik's solution not only addressed immediate challenges but also laid a robust foundation for future scalability and innovation.

Case Study



About Altimetrik

Altimetrik is a pure-play digital business services company. We focus on delivering business outcomes with an agile, product-oriented approach. Our digital business methodology provides a blueprint to manage data and develop, scale, and launch new products to market faster. Our team of 6,000+ practitioners with software, data, cloud engineering skills help create a culture of innovation and agility that optimizes team performance, modernizes technology, and builds new business models. As a strategic partner and catalyst, Altimetrik quickly delivers results without disruption to the business.

