Microsoft Azure

Intelligent Supply Chain Management Accelerator

Manage response to supply chain trends

The **Intelligent Supply Chain Management Accelerator** helps optimize inventory and demand forecasting. It uses Azure Machine Learning, Power BI, PowerApps, and a distributed computing framework to forecast demand forecasting and optimize inventory. It is an agile, scalable, and fast solution, it can improve decision making, even in changing conditions

Leverage data in a meaningful way to meet and exceed customer expectations. Improve decision making in evolving conditions, quickly bring the AI/ML business applications to life, perform optimization simulation at scale and boost risk prediction capabilities and scenario modeling.

Build a demand-driven, customer-centric supply chain

Challenges

Limited insight into supply and demand data.

Slow and uninformed decision making due to lack of sophisticated, scalable, and high-quality forecasting

Balancing customer satisfaction while minimizing carrying, storage, and maintenance costs

Strained supply chains caused by unexpected but imminent events, amplifying urgency for modern solutions

Increased technology costs and limited ROI when solutions aren't finely tuned to business needs

Inability to scale without technology to enable aggregation and analysis of growing volume of data

Benefits

Future proof your business

Improve decision making through user-friendly analysis and insights into your data.

Build consumer loyalty through a more seamless, connected customer experience.

Better predict and prepare for unexpected supply chain events.

Maximize operational efficiencies and reduce costs with inventory aligned to shifting demand.

Boost accuracy, execution speed, and scalability of inventory forecasting and visibility.

Customer success

Situation: Accurate forecasting of customer demand is essential to **optimizing inventory levels and reducing costs** for a US-based discrete manufacturing company with eight global subsidiaries.
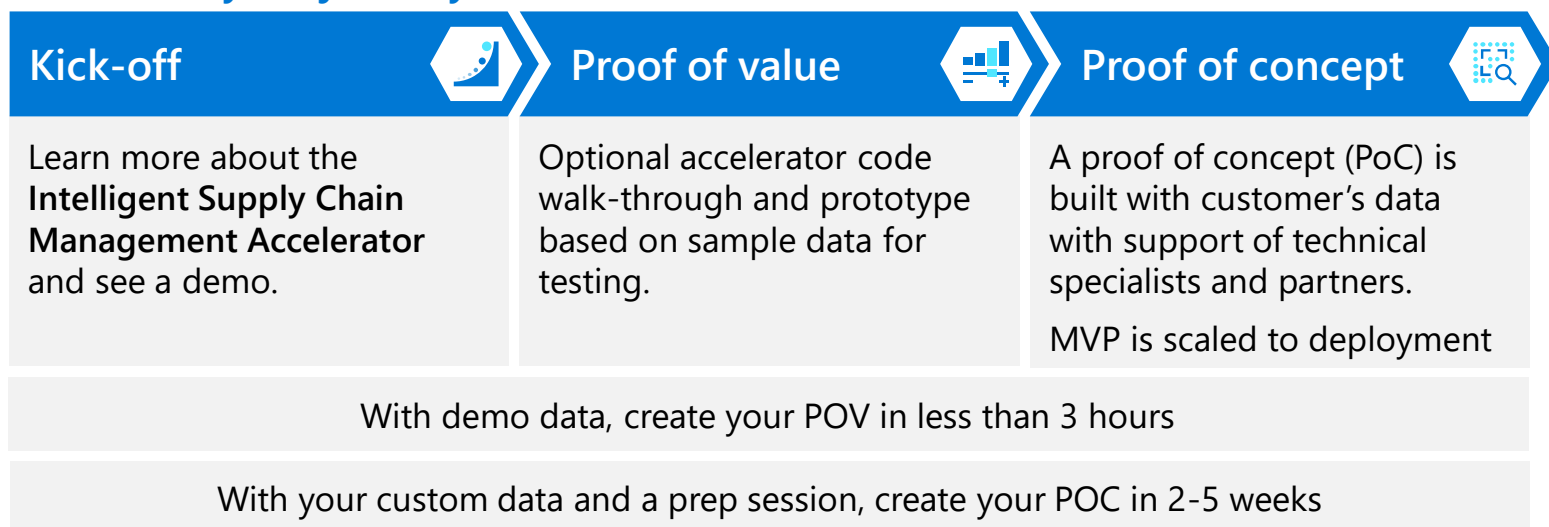
Solution: A **comprehensive integrated architecture** was implemented to provide **robust, distributed scientific-computing capability** to meet the customer's desired business need for forecasting and sensitivity analysis for hundreds of items in a few minutes.

Impact: **Scalable, fast, and accurate forecasting** for inventory and supply-chain demand and inventory optimization has overcome significant business challenges and is leading to optimal outcomes—including **analysis of data more that 100x faster** than existing solutions.

Potential use cases in retail and manufacturing industries

Analyze product information across locations to **access demand levels and decrease inventory costs**.

Identify the ideal amount of inventory to have in stock.

Predict how seasonal changes or other events might affect sales and restocking options.

Forecast the prices of commodities across locations and sales channels by using historical transaction data in a retail context.

Analyze stock variability and sales by using historical demand data to forecast demand in future periods, across customers, and by location and sales channel.

Accelerate your journey

Kick-off	Proof of value	Proof of concept
Learn more about the **Intelligent Supply Chain Management Accelerator** and see a demo.	Optional accelerator code walk-through and prototype based on sample data for testing.	A proof of concept (PoC) is built with customer's data with support of technical specialists and partners. MVP is scaled to deployment

With demo data, create your POV in less than 3 hours
With your custom data and a prep session, create your POC in 2-5 weeks

How to get started

Contact your Microsoft specialist for a demo and to discuss prerequisites, next steps, and your questions.