

Unlocking Success in Chemical Supply Chains

The chemical industry encompasses various chemical processes and products from raw materials to finished goods. The involvement of numerous stakeholders in the chemical supply chain enhances its intricacy. As the industry evolves, chemical companies face challenges ranging from market price fluctuations to environmental considerations, necessitating a strategic and holistic approach to supply chain management.

Furthermore, customer requirements and expectations are rapidly evolving, as in most industries today. As participants in a highly regulated and complex industry, chemical companies must adopt transparent and agile systems to remain responsive to the ever-changing dynamics of global market competition.

Therefore, ICRON Customer Centric Supply Chain Planning offers innovative solutions to chemical companies to help them overcome the complexities of the global supply chain framework.

Key Challenges

Chemical manufacturers operating in a data-intensive industry encounter a myriad of challenges in their day-to-day operations, including:

Lack of End-to-End Visibility

- › Insufficient real-time visibility and transparency.
- › Navigating a complex network involving global sourcing and distribution.
- › Challenges in proactively managing disruptions and mitigating risks.

Volatile Demand and Global Competitive Market

- › Poor customer segmentation and shorter planning periods.
- › Risk mitigation and demand satisfaction.

Raw Material Availability and Price Fluctuations

- › Complication in identifying alternative raw material sources.
- › Addressing long lead times and rapidly changing raw material prices.

Complex Production Planning

- › Multi-step processes and diverse product varieties.
- › Managing variable material bills and wide ranging resource categories such as furnaces, tanks, lines, and machines.
- › Batch processing and continuous production add complexity.
- › Balancing make-to-stock and make-to-order production.

Challenging Campaign Planning

- › Lack of efficient changeover planning and capacity utilization.
- › Complex planning requirements of production campaigns.

Difficulties in Integrating Sustainability as Part of Planning

- › Meeting environmental regulations for carbon neutrality and reduced footprint.
- › Addressing carbon emissions, wastewater usage, and energy consumption.

Pressure of Quality Control Standards

- › Complying with strict regulations.
- › Quality assurance of subcontractors.

Handling Massive Amounts of Data

- › Managing and reporting a vast amount of data.
- › Lack of updated systems in processing manufacturing and operational data.



Harnessing the power of Advanced Decision Intelligence and AI-driven solutions, ICRON plays a pivotal role in helping businesses establish a true customer centric supply chain.

ICRON Customer Centric Supply Chain Planning offers a unified planning and decision-centric optimisation platform, that empowers organisations to make intelligent business decisions and address diverse supply chain challenges. ICRON's platform stands out with five key differentiators that empower organizations to thrive in today's dynamic business landscape:

- Supply Chain Optimization
- End to End Visibility and Global Pegging
- Customer Centricity
- Risk Management
- Sustainability



Benefits

20%
increase in OTIF
performance

25%
reduction in
inventory costs

20%
increase in
capacity utilization

27%
decrease in
emission

Optimized decisions made simple

Navigating Complexities with ICRON

The chemical industry is renowned for its intricacy and vast data production. The utilization of a decision intelligence platform represents a profound transformation within this sector. It grants companies the capacity to base their decisions on data, streamline operations, cut costs, enhance customer service, and maintain compliance with ever-evolving regulations. Embracing this digital revolution isn't merely a competitive edge; it has become a necessity for chemical industry leaders in an era of data abundance.

In this complex landscape, chemical companies must make optimal decisions to achieve operational excellence. ICRON Customer Centric Supply Chain Planning transforms the industry from siloed decision-making to a holistic, end-to-end approach empowered by decision intelligence.

End-to-End Planning & Visibility

- › Integrated Business Planning on a unified platform.
- › Optimization and visualization of the entire network.
- › Real-time integration and disruption management via flexible constraint integration.
- › Agile disruption management through flexible constraint integration.
- › Robust what-if scenario analysis.

Flexible Demand Management

- › AI/ML driven forecast and demand planning.
- › Flexible planning at different time granularities.
- › Agile order promising with diverse strategy profiles.

Mitigating Raw Material and Price Volatility Challenges

- › Supplier management: visibility of suppliers, AI-based risk modelling of suppliers.
- › Optimized procurement planning with optimized inventory costs and stock levels.
- › Multi-echelon inventory optimization.

Streamlined Production Planning

- › Fully automated planning with diverse manufacturing processes.
- › Variable bill of materials management.
- › Optimal tank planning for efficient resource utilization.

Efficient Campaign Optimization

- › Optimized continuous and semi-continuous campaign planning.
- › Setup minimization and capacity utilization maximization.

Sustainable Supply Chain Optimization

- › End-to-end supply chain planning with a focus on sustainability, minimizing CO2 emissions, energy usage, and environmental impact.
- › Data analytics to monitor and understand key sustainability performance indicators (KPIs) within the supply chain.

Strategic Regulatory Compliance

- › Strategically align production or procurement with regulatory compliance processes.

Optimize with ICRON today!

Get in touch: hello@icrontech.com