

Enabling Sustainable Excellence in Pharmaceutical Supply Chains

The pharmaceutical industry is witnessing an era of fast-paced growth. As the world raises the demand for high-quality pharma products, there is a pressing need for sustainable and resilient pharma supply chains to fulfil this demand. However, complex manufacturing processes, supply dependencies, and inefficient inventory management often disrupt the pharmaceutical supply chains. Such disruptions may adversely affect business and prevent timely access to life-saving products.

Frequently changing country-specific API regulations can complicate the supply chain planning process in the pharma industry. Amidst the ever-changing regulations and high quality standards, pharma manufacturers must attempt to find the optimum inventory level to prevent overstocking and stockouts. Pharma supply chains require agile strategies and risk mitigation to prepare for the surging demand in their sector. The ICRON Customer Centric Supply Chain Planning offers an accurate and industry-specific approach that enables flexibility for the pharma manufacturers.

Key Challenges

Pharmaceutical businesses must navigate various uncertainties and challenges along their supply chain. Building customized solutions for pharma supply chains starts with understanding these challenges.

Complex Inventory Management

- › Developing agile inventory management techniques to align inventory with ever-changing demand and regulatory changes.
- › Designing an optimal inventory management strategy that factors in shelf-life, multiple production and packaging sites to avoid overstocking or stockouts.
- › Establish a cost-efficient inventory control system that fulfills unique business objectives.

Adhering to High-Quality Standards

- › Delivering consistent quality for healthcare products.
- › Navigating the complexities of the stringent regulations and price volatility to maintain high quality standards.

Risk Mitigation

- › Building a comprehensive approach for risk analysis and mitigation.
- › Finding the suitable tools for risk analysis specific to the pharma industry.
- › Identifying the vulnerabilities in the pharma supply chain and the risks they pose to the business.

Changing API Regulations

- › Adhering to country-specific API regulations complicates supply chain planning.
- › Complying with product quality standards amidst changing regulations increases complexity in pharma manufacturing.

Supply Chain Visibility

- › Enabling visibility over the complex pharma supply chain network.
- › Retaining transparency throughout the pharma supply for traceability.
- › Identifying the areas of improvement in different facets of the pharma supply chain.

Intricate Manufacturing Processes

- › Handling complex manufacturing processes and global supply dependencies.
- › Avoiding potential disruptions by developing agile supply chain strategies and risk mitigation.
- › Develop a coordination strategy between multiple production and packaging sites, external suppliers, and complex distribution networks.



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

10%

increase in on time in full delivery

20%

increase in inventory turnover

10%

decrease in cost-to-serve

15%

decrease in lost sales

Optimized decisions made simple

➤ New-Age Solutions to Pharmaceutical Supply Chain Challenges

The pharmaceutical supply chain is characterized by stringent regulations and demand uncertainties. ICRON Customer Centric Supply Chain Planning enables pharmaceutical manufacturers to navigate the complex production processes and continue to provide timely access to life-saving drugs worldwide. Integrate the power of real-time market insights and customer information to make informed decisions that empower every facet of your pharmaceutical supply chain. Inventory management is one of the most complex challenges in the pharma supply chain. ICRON adopts an accurate, industry-tailored approach that allows for flexibility and strategic agility to elevate supply chain planning in the pharmaceutical industry. Here is a detailed look at ICRON's unique approach and solutions for pharmaceutical supply chain planning.

Multi-Echelon Inventory Optimization Model for Effective Inventory Management

- Adopt effective inventory management tactics that optimize the production and distribution network.
- Manage production and capacity constraints with better traceability and visibility.
- Tackle complex networks, supplier dependencies, and fluctuating lead times cost-optimal safety stock allocation across the supply network.

Intelligent Network Planning

- Develop dependable contingency plans and alternative supply routes with ICRON's multi-objective network optimization solution.
- Foresee the details of decision outcomes on supply-demand matching.
- Find an optimal balance between inventory levels and operational efficiency with effective network planning solutions.

Improved Compliance to Pharma Regulations & Quality Standards

- Maintain high quality to adhere to the pharma industry standards.
- Synchronize end-to-end supply planning to ensure regulatory compliance.
- Gain agile responsiveness to facilitate compliance with changing regulations.

Optimized Production Efficiency

- Streamline the end-to-end pharma supply chain with ICRON Customer Centric Supply Chain Planning.
- Minimize capacity losses between production changes to improve production efficiency and productivity.
- Find real-time insights to make informed decisions to improve production.

Informed Decision Making with Scenario Planning

- Enhance the competitive edge with ICRON's intelligent planning solutions.
- Account for minimum and maximum capacity constraints based on scenario planning.
- Use the scenario planning tool to anticipate various market scenarios and calculate the outcomes.
- Leverage the comprehensive 'what-if' analysis to mitigate risks and optimize the supply chain.

End-to-End Supply Chain Visibility

- Gain unprecedented visibility into the pharmaceutical supply chain network with dynamic global pegging.
- Initiate quick response to emerging challenges in the pharmaceutical supply chain with decision intelligence.
- Anticipate potential disruptions, market fluctuations, and regulatory changes with efficient network planning solutions.

Risk Management & Resilience

- Analyze and mitigate supply chain risks with essential simulation and optimization tools.
- Utilize ICRON's advanced algorithmic capabilities, including heuristics, optimization, simulation, and data analytics, to augment supply chain resilience.
- Analyze potential risks and disruptions to identify alternative sourcing and distribution strategies.

Optimize with ICRON today!

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