

Strategic Network Optimizer

Optimal allocation of resources and optimization of sourcing from suppliers have a direct impact on ROA, COGS, and gross margins. Design your supply chain for resiliency.



The challenges you face

Shareholders demand higher returns and, in today's more accountable economic times, the only way to deliver them is by improving enterprise performance and profitability.

The fast track to profitability is to make sure you satisfy your customers, use up excess inventories before you phase-in new product lines, optimize sourcing, maximize plant utilization, develop the lowest cost production plans that meet your forecasted demand, and make sure you meet your capital targets while delivering *perfect* orders.

The Adexa Strategic Network Optimizer (SNO)

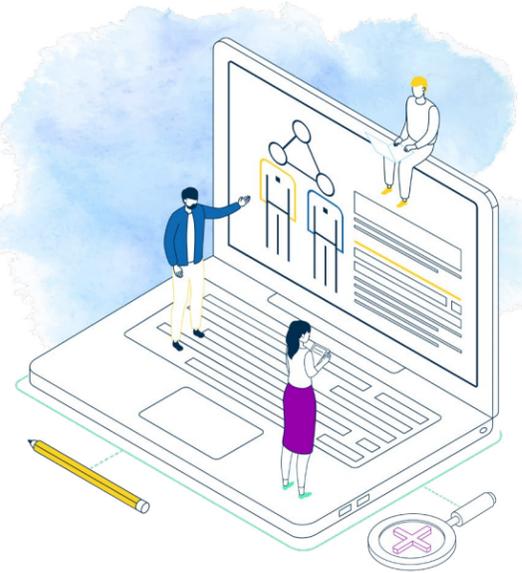
SNO aggregates, optimizes and synchronizes multi-site sourcing & procurement, production, and distribution plans. It ensures financial targets are met on a local and enterprise scale.

It dynamically identifies and corrects the inefficiencies in the operations plan to eliminate the symptoms of poor plans. SNO delivers a critical, intelligent link between financially driven operations planning and demand planning within a unified environment.

Symptom	Cure
Poor customer service with high working capital	Optimize the allocation of working capital
Poor gross margins	Lower cost of purchased materials, manufacturing and distribution
Poor gross sales in units, or total revenue	Better allocation planning considering supply constraints. Improve service levels
Higher than expected direct operating costs in any area (Sourcing, manufacturing, distribution or purchasing)	Improve human and material asset utilization
Poor supplier order fill rate and on time delivery	Synchronize critical material requirements with suppliers
Excessive inventory levels or inventory value	Improve allocation of inventory and targets based on constraints. Predict demand patterns

Adexa gives you new insight and control:

-  **Decrease cost of goods sold**
-  **Decrease working capital requirements**
-  **Increase gross margins**
-  **Increase revenue growth**
-  **Better customer service levels**
-  **Optimal product mix**
-  **Increase plant utilization**
-  **Increase warehousing utilization**
-  **Optimal supplier sourcing percentage**
-  **Reduce inventory levels**



SNO value proposition

Adexa’s Strategic Network Optimizer solution ensures that all facets of enterprise operations are considered in developing the most profitable plans for the enterprise. SNO enables your company to drive the financial plan into the operations plan, to maximize returns by considering all costs and constraints of your supply chain including your suppliers’ cost and constraints.

With SNO, you can improve on the revenue side by having the system prioritize demands and identify when and where additional capacity is required. SNO will also select the least expensive methods of purchasing, producing, & distribution and dynamically identifies alternatives when constraints so dictate.

Key Performance Indicators (KPIs) are tracked by the system, and alerts are issued if, due to disruptions or deviations, operation targets are going to be missed. It also guides you to make adjustments to get back on track.

Its prescriptive algorithms enable a holistic optimization of the entire supply chain and operations producing results which are not just optimal but executable.

SNO key features

- A cost/revenue based system that links the operations plan to the financial plan.
- An intelligent solver to help Supply Planners optimize plans and optimize sourcing decisions
- A single solution for demand planners, supply planners, customers, suppliers and financial planners to drive the entire enterprise
- Run scenarios to find your ideal financial outcome and how to make your supply chain more resilient
- Optimize based on material, commodity, region, service level, inventory cost, sourcing or any other constraint that might be relevant at the time
- Buyers, suppliers and other downstream stakeholders can receive exception-based alerts
- A secure architecture that gives participants browser access to the solution from anywhere, or to electronically integrate business rules and plans in and out of the system
- SNO is a component of the total Adexa Digital Mirror® solutions combining it with S&OP and S&OE as well as inventory optimization in a unified data model

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Advantages of the Adexa SNO solution

Adexa’s supply chain planning solutions are designed to address the short and long-term operations planning issues faced by manufacturers every day. The solutions are prescriptive and predictive algorithms that drive the digital mirror of the supply chain and operations at different levels depending on the frequency and granularity of data. To this end, SNO generates plan which are taken to lower levels of detail, without user intervention, all the way down to sequencing equipment operations, if so desired.



Adexa delivers smart solutions that synchronize corporate planning with operations planning and execution on a local and enterprise level, to ensure all assets are utilized to achieve strategic objective.

Moreover, the system is capable of constantly self-correcting and self-improving policies using the digital twin of the supply chain and factories. This enables manufacturers to reduce the cost of goods sold, shorten lead-times for orders and reduce inventory costs with improved supply chain collaboration and management.

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