

5 Ways Digitalization Builds Resilience in the Chemical Supply Chain

In this volatile environment, chemical producers are striving for business continuity and cost optimization. A gap between supply chain planning and operations execution can stand in the way of these goals. Misaligned business processes, shifts in demand and unexpected operational challenges can all hinder organizational success. A recent ARC survey found that most respondents are investigating digital technologies that increase manufacturing flexibility and help meet supply chain challenges.

Take advantage of the latest supply chain management technology to break down barriers, increase agility, eliminate miscommunications and ensure security of supply.



1 Evaluate strategic manufacturing and logistics network scenarios holistically. Explore the economic and operational impacts of various "what-if" scenarios, including manufacturing footprint optimization, product mix and volume transfer, make vs. buy strategies and capital investments.



2 Economically optimize and align your overall supply and demand as part of the monthly Sales & Operations Planning (S&OP) / Integrated Business Planning (IBP) process.



3 Create realistic and executable production schedules aligned with S&OP/IBP goals and implemented through Sales & Operations Execution (S&OE), boosting on-time in-full (OTIF) order fulfillment by as much as 20%.



4 Minimize distribution inefficiencies. Ensure the correct product is where it needs to be, while reducing distribution costs by as much as 8%.



5 Strengthen your supply chain with self-healing capabilities. Ensure that supply chain planning and scheduling models remain as accurate as possible via automatic detection of data inputs that may no longer be valid among potentially hundreds of thousands of manufacturing data inputs (e.g. processing times, yields, setup times, cleanout times, transition times, etc.) used in supply chain digital twins.



Learn more in the white paper

**Alignment Between Supply Chain and Operations Execution:
The Formula for Higher Profits in Chemicals**