

# Engineering investments deliver x-fold savings

Network optimization studies regularly deliver much more in savings than the initial investment in engineering services for customers across broad spectrum of industries.



## Network optimization solves for:

- > DC and warehouse location challenges
- > Capacity issues
- > Business growth
- > Complex or redundant networks caused by mergers, acquisitions and divestitures

The situation

## Transition from single source DC to a mixing center strategy

The results

- > 46% improvement in service level
- > Enabled transportation economy of scale
- > 50% reduction in average shipment miles
- > Identified and quantified key savings levers



**Savings**  
\$5.1M



**Project length**  
4 months

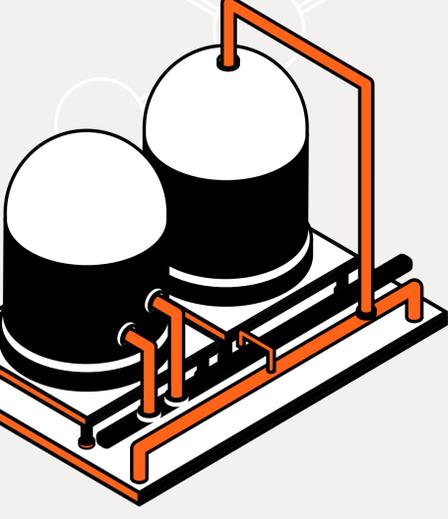
Customer: A global leader of comfort and security solutions for homes

The situation

## Clean up network inefficiencies and facility capacity issues resulting from merger and divestiture activity

The results

- > 6.5% improvement in volume delivered by day 2
- > Improved inventory positioning reducing multi-touch
- > Facility capacities positioned for future growth
- > Step change roadmap to gain efficiencies identified
- > Flex solution to address impact of future divestiture



**Savings**  
\$6.3-8M



**Project length**  
6 months

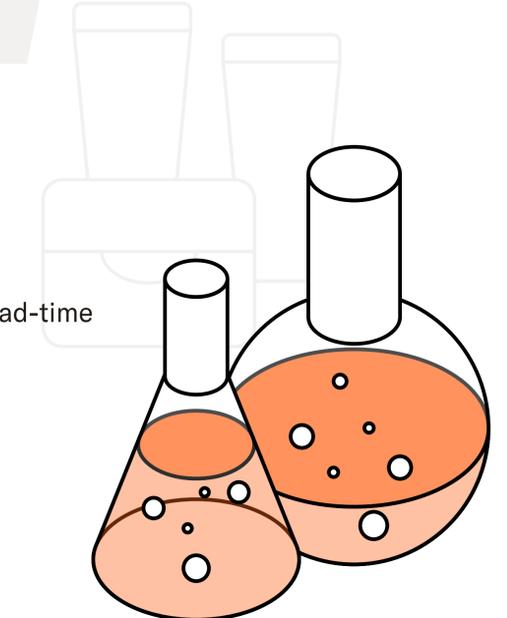
Customer: A global provider of specialized chemical materials and services

The situation

## Reduce inefficiencies while preparing for growth

The results

- > Reduced product multi-touch
- > Improved facility capacity utilization
- > Four new options for specialized hazard material products
- > Improved port strategy reduced cost and lead-time



**Savings**  
\$670k



**Project length**  
4 months

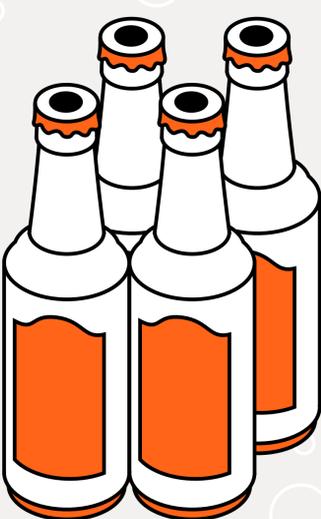
Customer: A global specialty chemicals and personal care business

The situation

## Redesign network after a divestiture resulting in 30% volume reduction

The results

- > Eliminate need for additional off-site warehouse
- > Balanced distribution network thru wholesaler frequency and ship day assignment
- > Simulated transportation optimization options for wholesalers with infrequent shipping cycles
- > Provided three phase implementation plan savings



**Savings**  
\$730k



**Project length**  
3 months

Customer: A specialty beverage company

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