

# What problems can **River Logic solve for me?**

River Logic’s Supply Chain Optimization Solution addresses a wide range of planning and decision-making challenges across dozens of verticals.



Use case	How is the business problem defined?	How do customers benefit?
S&OP/ Integrated business planning	Integrate demand, supply and financial planning to determine the plans that best meet overall company objectives, while ensuring they realistically consider business realities and risk. Generate financial plans/re-forecast directly out of S&OP/IBP business value. Plan concurrently as opposed to sequentially	Improve trade-off evaluations by expanding the decision scope to simultaneously include product mix/ demand generation, supply and suppliers (vs. sequential decisions) while tying the plans explicitly to business value
Supply planning	Represent different supply chain characteristics and fulfillment modes (i.e., MTS, MTO, ETO) to determine the supply plan that best meets demand-, including procurement, capacity, sourcing, inventory and logistics-, balancing across multiple objectives	Evaluate and run what-if scenarios against multiple objectives (service levels/OTIF, growth, profit/cost) while ensuring plans are feasible and optimal
Capacity planning	Anticipate capacity utilization and optimize the response (i.e., running extra shifts, Sunday work) to meet service levels subject to minimum cost and stocking requirements	Leverage optimization and representation of real costs to find optimal plans; provide visibility and data management tools to a broader user base
Supply [industrial] strategy & capex	Find the best [minimum cost] plan to meet supply requirements, balancing different types of capacity investment against build-ahead and overtime scenarios	Consider a broader financial picture and leverage optimization for better quality plans; higher flexibility to configure scenarios; represent inventory and service levels

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Production sourcing	Determine the optimal footprint for where to place production lines, what they should be producing and for which geographies, considering impact on transportation and stocking cost	Optimization can balance objectives across minimum cost, lead times and stocking
Inventory optimization	Determine the policies to manage inventory, including stocking locations and safety/maximum stock requirements in each location	Potential to combine with broader view of supply strategy for a better quality and informative outcome
Customer profitability/ Bid support	In B2B situations, evaluate the optimal approach to work with different customers and to prepare bids for new orders that consider both customer requirements (i.e., product, ATP) and the full impact on the business	Leverage optimization to simulate how the business would perform under different customer contract SLAs and bids, thus anticipating and identifying the SLAs and bids that maximize value to the business
Strategic procurement	Evaluate and optimize the mix of suppliers and supplier agreements, including guidelines towards procurement orders	Reduce overall procurement cost while balancing risk, location and lead time considerations
Business modeling	Identify opportunities to better collaborate within the business – for example, by exploring the best use of available capacity or evaluating how to allocate supply when shortages occur	Connect demand and financials with the supply picture to produce new insights and establish explicit links to value and strategic metrics
Network optimization	Determine the optimal configuration of distribution centers, inventory and logistics flow-lanes	Balance cost, service levels and stocking; potential to integrate into broader analysis
Product portfolio analysis	Understand the profit and growth contribution of the product portfolio, and evaluate changes in policy (i.e., MTS/MTO), pricing and strategy (i.e., SKU rationalization)	Explicitly tie the product portfolio to customers, supply chain and business outcomes, leveraging optimization to find the best combination of decisions while ensuring feasible results

	<a href="http://www.riverlogic.com">www.riverlogic.com</a>
	email: <a href="mailto:info@riverlogic.com">info@riverlogic.com</a>
	call: 866.326.0171