







WHAT IS THE GSCL?

The Global Supply Chain Laboratory's (GSCL) role is to work with our industry partners, generating knowledge and conducting projects that codify new best practices and create competitive advantages. The professional researcher engineers at the GSCL create cutting-edge solutions for wholesale and industrial distribution channels, and provide answers to distribution and supply chain management challenges.





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WHY CHOOSE THE GSCL?

The **Global Supply Chain Lab** team at the Thomas & Joan Read Center has been conducting research projects for more than 20 years with industry partners. The Lab has created some of the most significant and broadly implemented distribution focused best practices such as Customer Stratification, Inventory Stratification, Pricing Optimization, and Network Optimization, along with many specialized, highly tailored projects.

9 Your Benefits () Our Capabilities	
Gain Competitive Advantage	Applied Research and Proven Methods
Improve Profitability	Actionable Results
Maximize Asset Efficiency	Industry-focused Education
Develop New Capabilities	Better Value for Investment

Projects include business process optimization and profitability analysis and other customized applications. The research team applies and documents best practices specific to the firm.

As the project matures, the team also designs an educational program that explains and trains company specialists on findings and new processes in a business workshop that facilitates change management and teaches teams how to leverage the new practices.

PROJECTS AND OUTCOMES

	Client - Line of Trade	Client Revenue	Project Outcome			
Project Area			Inventory Reduction/ Re-deployment	Service Level Improvement	Gross Margin Improvement	
Optimizing Distributor Profitability	Wireless	\$ 1.2 Billion	Strategic Business Assessment identified TOP 3 initiatives (similar to following projects) for optimal profitability.			
	Building Materials	\$ 1 Billion				
	Paper and Chemical	\$ 350 MM				
Inventory Stratification	Oil and Gas Equipment	\$ 1 Billion	20% 😳	6% 🕥		
	Paper	\$ 220 MM	10% 😳	3% 🖸		
	Building Materials	\$ 1.2 Billion	24% 🕓			
	Building Materials	\$ 120 MM	20% 🕓			
	Metals Distributor	\$ 450 MM	30% 🕓	8% 🕥		
Customer Stratification AND/OR Pricing Optimization	Outdoor Power Equipment	\$ 75 MM			1.5% 🕥	
	Paper	\$ 100 MM	Implementation in progress and pilot location results range from 2 - 4% gross margin improvement.			
	HVAC	\$ 80 MM				
	Building Materials	\$ 1 Billion				
	Industrial Automation	\$ 145 MM				
	Building Materials	\$ 120 MM				
	Propane Equipment	\$ 40 MM				
	Gases and Welding	\$ 100 MM				
	Plastics and Resins	\$ 500 MM				
	Packaging and Containers	\$ 200 MM				



BUSINESS ANALYTICS UNIT

The **Business Analytics Unit** at the GSCL is tasked with creating cutting-edge solutions for wholesale and industrial distribution channels using advanced data analytics techniques and machine learning.





Product Recommendation Engine



Goal

 To develop a recommendation engine for products based on Market Basket analysis

Impact

→ The companies doing product recommendation have reported almost 35% of their revenue coming from product recommendation.





RESEARCH CONSORTIA

"A collaborative research effort that brings multiple distribution and manufacturing firms and industry associations across diverse lines of trade together to solve an industry wide challenge."

	Year	Consortium Topics
	2000	Information Systems Consortium
\$	2005	Pricing Optimization
	2007	Optimizing Distributor Profitability
+	2008	Texas/Mexico Trade Corridor
©	2009	Sales and Marketing Optimization
%	2011	Optimizing Growth and Market Share
	2011	Optimizing Customer Service
	2012	Optimization Channel Compensation
	2014	Optimizing Human Capital Development
	2015	Optimizing Value Add Services
	2015	Optimizing Data Analytics
× ×	2018	Small Distributor Consortium
	2020	Digitizing the Sales Process

PUBLICATIONS FROM PAST CONSORTIA





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