SCORmark

Prepared for Client

How well does your supply chain performance and practice stack up?

2019





OUTLINE





OUTLINE

Example Readout; Contains Mock Data for Illustrative purposes only

ORmark

APPROACH

- Overview of SCORmark Supply Chain Benchmarking Service
- Background, Objectives, and Scope
- Custom Comparison Population Characteristics

EXECUTIVE SUMMARY OF RESULTS

BENCHMARKING RESULTS

- Detailed Benchmark Results
 - Quantitative Performance
 - Complexity
 - Qualitative Practices
- Conclusion and Steps

APPENDIX

About PwC





APPROACH

Overview of SCORmark Supply Chain Benchmarking Service



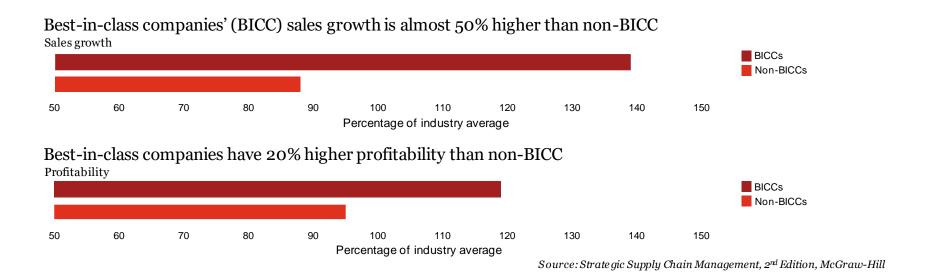


Why is SCM/Operational Excellence Importa<mark>n</mark>

Example Readout; Contains Mock Data for Illustrative purposes only



Leaders succeed not only in supply chain measures, but they achieve superior top and bottom-line performance...



Yet there is significant untapped opportunity to achieve competitive advantage...

Surprisingly, **only 45**% of companies view the supply chain as a strategic asset

And **only 9**% say the supply chain is helping them outperform their peers





Supply chain performance ties directly to top Example Readout; Contains financials; benchmarking can highlight improvement focus at

Inventory

Daysof

Supply

Net Asset

Turns

Income Statement

Summary	
Sales Revenue	\$187,200,000
COGS Expense	\$121,680,000
Gross Margin	\$65,520,000
OpEx	\$36,900,000

Customer Facing Performance

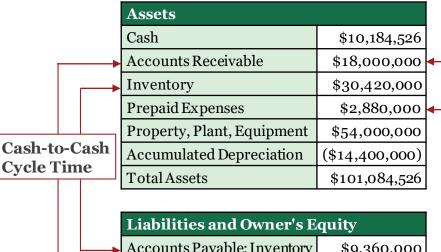
- Delivery Performance
- Order Fulfillment Lead Time
- · Production Flexibility

Total Supply Chain Management Cost

- Inventory Carrying
- · Order Management
- Material Acquisition
- Supply Chain Finance and Planning
- Supply Chain IT

To ensure consistency in the benchmarked values data is collected and benchmarks are calculated per the same definition as all other companies in the database; this ensures "apples to apples" comparison

Balance Sheet



Liabilities and Owner's Equity					
Accounts Payable: Inventory	\$9,360,000				
Accounts Payable: OpEx	\$2,160,000				





The supply chain is structured around five distinct management. processes—plan, source, make, deliver, and return purposes only



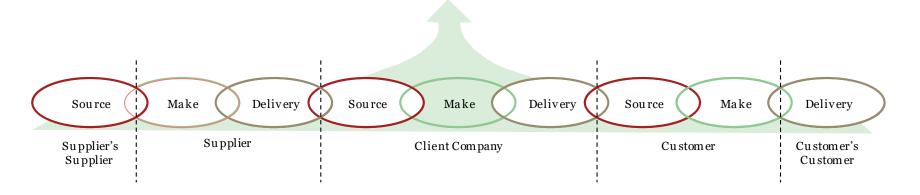
Supply chains from one company overlap with those of their suppliers and customers

Supply-Chain Operations Reference-model® (SCOR®)

- Founded on five distinct management processes: Plan, Source, Make, Deliver, and Return
- Co-developed by PwC (PRTM) in 1996 to establish a framework with a balanced set of metrics that provide insight into key areas of supply chain management processes
- Builds on the concepts of business process reengineering, benchmarking, and process measurement by integrating their techniques into a cross-functional framework that addresses management issues at the enterprise rather than at the functional level

• Recognized by the 1000+ member companies of the APICS as an effective "toolkit" for companies wanting to upgrade their supply chains for strategic advantage

Plan







These SCOR processes are then benchmarked against quantitative performance metrics, qualitative practices, and SC complexity





Internal Facing Metrics

Delivery

Quality

Facing Metrics

Perfect Order
Supply Chain Agility
Total Supply Chain
Cost
Asset Performance

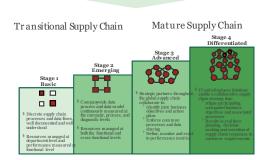
2 Qualitative Practices

Supply Chain
Strategy

Plan Source

Make Deliver

Return



Supply chain benchmarking links key financial outcomes with supply chain strategies

Cost

Assets

Flexibility &

Performance/Responsiveness

Stage of supply chain maturity correlates with performance, profitability, and sales growth

3 Supply Chain Complexity

Portfolio of Products and Services

Configuration and Structure

Processes and Systems

- · Product Portfolio
- · Supplier Base
- Customer Base & Channel Strategies
- Manufacturing
- Distribution and Transportation
- Management Processes and Systems

Quantifying and addressing complexity is a key enabler in Supply Chain transformation

Data is collected and reported at the supply chain level, not company-wide level





Benchmarking is an important tool to drive Sexcellence

Example Readout: Contains performance Mock Data for Illustrative purposes only

ORmark

Benchmarking IS:

- Process that requires data submission using standard metrics frameworks which provide accurate intra- and intercompany comparison
- Tool that compares company performance against best-in-class to identify improvement opportunities, areas of competitive advantage
 - Qualitative: Business Practices
 - Quantitative: Performance Metrics
- A way to measure the financial opportunity of achieving target performance levels

Benchmarking is **NOT**:

- Scrutinizing fractions of percentage points in results it is focused on bigger picture results for directional purposes
- Obtaining performance numbers without submitting company data full data is needed to get complete benchmark visibility
- A competitive intelligence analysis it is comparing against best-in-class and best practices inside and outside of a peer group
- A standalone activity it is a tool to develop strategy, set goals, and drive overall performance improvement efforts





Before getting a benchmark started it is important to understand some common pitfalls to avoid

Example Readout; Contains purposes only

ORmark

Benchmarks too high level or represent different business types

Benchmarking not part of a well planned improvement process

Targets set without reference to the broader business strategy

Benchmark performance not tied to processes and performance drivers

- Business leadership needs to buy into the comparability of benchmarks before recognizing the need for change
- Inappropriate benchmarks often raise more questions than they answer
- Projects are quickly derailed when stakeholders cannot agree on the initial value proposition
- Results should be immediately tied to specific project recommendations
- Projects should be structured into prioritized, time-phased improvement roadmap
- Specific objectives should be set for each initiative on the roadmap and tied back to the initial value proposition
- No business can be best-in-class on every metric
- Targets should be set individually for each business, recognizing tradeoffs between cost, working capital, and service levels
- Stakeholders should help set targets in each area providing teams with ownership of the project outcome
- Performance metrics provided in a standalone fashion provide little actionable information
- Assessments should include a thorough review of current process capabilities and external factors driving performance (e.g., supply chain complexity)





APPROACH

Background, Objectives, and Scope





Background, Objectives, and Scope

Example Readout; Contains Mock Data for Illustrative purposes only



Background:

Client is a member of APICS and engaged in SCORmark benchmarking for its xxx Business

Objectives:

- Measure Supply Chain performances against similarly structured Supply Chains to identify improvement opportunities and areas of competitive Advantage
- Compare to other Supply Chains with a similar strategy
- Help identify target metrics to continuously measure and provide associated performance levels to drive operational improvement efforts
- Provide potential financial opportunities associated with achieving Superior levels of performance

Products:

XXXX





APPROACH

Custom Comparison Population Characteristics





PwC's database of >2000 company supply chains enabled Mock Data for Illustrative selection of comparison supply chains for this assessment purposes only



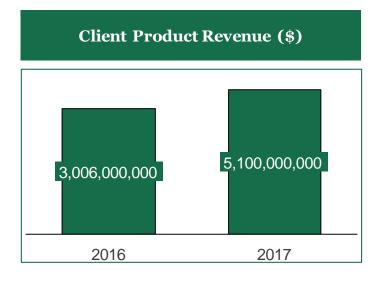
Baseline Population >2000 supply chains	Base Supply Chain Filter ~100 supply chains	Operations Filter ~25-50 supply chains	Business Model Filter ~20-30 supply chains	Final Peer Group ~15-20 supply chains
Apparel and Footwear Medical Device and Equipment Electronic Equipment Energy, Chemicals, Applied Materials Industrial Aerospace and Defense Computers and Storage Semiconductors Telecommunication Equipment	Consumer Products Packaged Goods Home Appliances Industrial Products Others	Revenue / Scale of Operations Distribution Dynamics (Volume, Order Size, # of Channels) Product Dynamics (SKU's, Price)	Business Model My Ori	y a minimum of 15-20 oply chains? ve statistical significance otect client confidentiality





Client's peer group focused on supply chains of types, revenue and manufacturing strategy





Products Manufactured By These Supply Chains

• Products

Characteristic	Population Average	Client
Product Revenue	\$4.0BUSD	\$5.1BUSD
Manufacturing Strategy CTO	~50% CTO	~60% CTO
Manufacturing Strategy MTS	~40% MTS	~30% MTS
Manufacturing Process	93% Discrete manufacturing	95% Discrete manufacturing





EXECUTIVE SUMMARY OF RESULTS





Executive Summary of Client's benchmark results Mock Data for Illustrative

purposes only



Attributes	Key Observations	Performance
Reliability	TBD	
Responsiveness	TBD	an l
Agility Cost Execution	utive Summary created specifically for your organization	
Asset Management	TBD	
Tuber Hanagement	TBD	

Potential Improvement Major On-Track **Opportunity**





SCORmark Level 1 Scorecard

Example Readout; Contains Mock Data for Illustrative purposes only



Attribute	Metrics	Target Performance	Client	Parity (50%)	Advantage (70%)	Superior (90%)	Gap to Target
Relia bility	Per fect Order Fulfillment	Parity	72.7	66.7	C 74.6	82.5	-
Responsiveness	Total Order Fulfillment Cycle Time, Stocked Products (Days)	Advantage	37.8	c 14.5	8.9	3.4	28.9
Agility	Supply Chain Flexibility (Days)		6.0	25.5	14.3	3.0	3.0
	Supply Chain Adaptability (%)	Superior	21.3	C 21.3	31.9	42.5	21.2
Cost	Total Supply Chain Management Cost (% of Product Revenue)	Advantage	3.1	4.8	3.6	C 2.3	-
Asset Mgmt. Efficiency	In v entory Days of Supply	Parity	22.3	53.8	36.9	C 20.0	-

Observations







BENCHMARKING RESULTS

Detailed Benchmark Results - Quantitative Performance

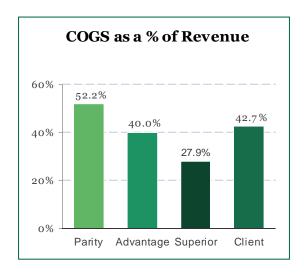


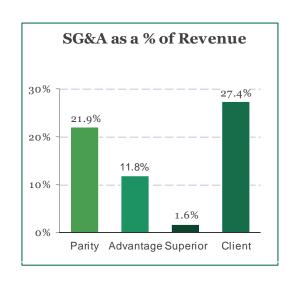


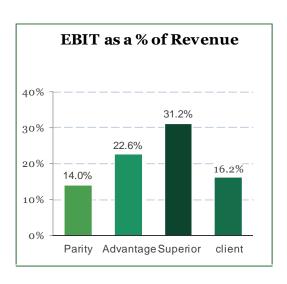
Financial Performance

Example Readout; Contains Mock Data for Illustrative purposes only









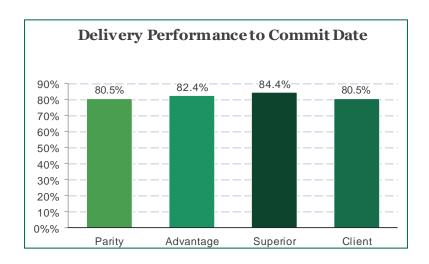
Observations

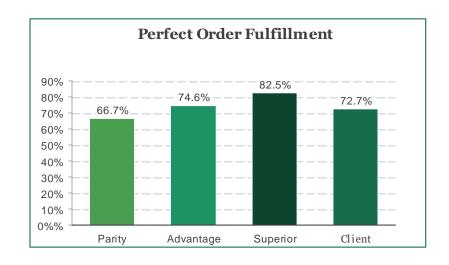


Delivery Performance

Example Readout; Contains OR Mark

Mock Data for Illustrative
purposes only





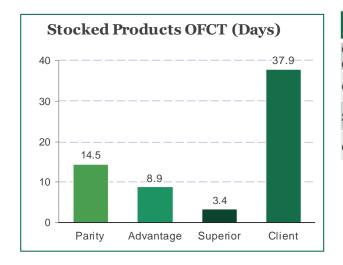
Observations





Order Fulfillment Cycle Time (OFCT), Days Stocked Products

Example Readout; Contains Mock Data for Illustrative purposes only



Cy cle Time (Days)	Parity	Advantage	Superior	Client
Cu stomer Signature/Authorization to Order Entry Complete	0.85	0.64	0.43	4.42
Order Entry Complete to Start Pick/Pack of Order	0.85	0.85	0.85	0.71
Start Pick/Pack of Order to Order Ready-to-Ship	1.36	1.11	0.85	0.00
Or der Ready-to-Ship to In stallation Complete	4.42	3.06	1.70	32.73

Worse than Parity Close to/Better than Parity Among Su
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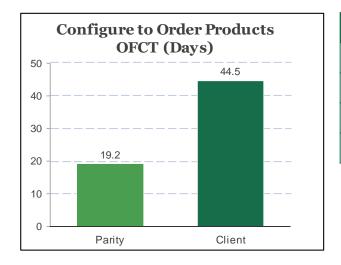
Observations





Order Fulfillment Cycle Time (OFCT), Days Configure-to-Order Products

Example Readout; Contains Mock Data for Illustrative purposes only



Cy cle Time (Days)	Parity	Client
Customer Signature/Authorization to Order Entry Complete	0.85	4.27
Or der En try Complete to Start Manufacture	1.28	0.71
Start Manufacture to Order Complete Manufacture	7.57	2.55
Or der Complete Manufacture to In stallation Complete	4.42	36.98



Observations

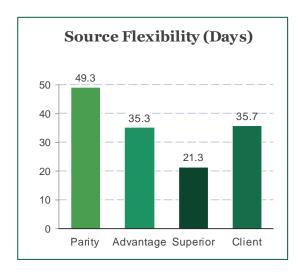




Supply Chain Flexibility

Example Readout; Contains Dock Data for Illustrative purposes only increase

Flexibility: number of days required to achieve an unplanned sustainable 20% increase







Observations

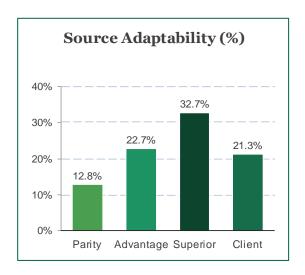


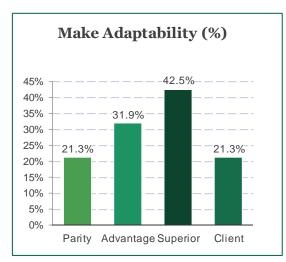


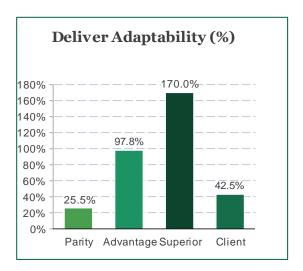
Supply Chain Adaptability

Example Readout; Contains Cont

Adaptability: maximum sustainable percentage increase that can be achieved in 30 days







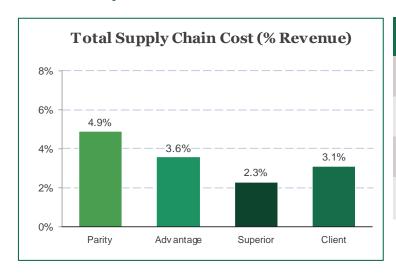
Observations





Total Supply Chain Management Cost as % **of Product Revenue** Summary

Example Readout; Contains **Cost** Mock Data for Illustrative purposes only



Cost (% of Revenue)	Parity	Adv.	Superior	Client
Order Management Cost	2.37%	1.45%	0.54%	1 .11%
Material Acquisition Cost	1.39%	0.99%	0.60%	1.34%
In v entory Carrying Cost	0.87%	0.73%	0.60%	0.44%
Supply-Chain-Related Finance & Planning Cost	0.19%	0.14%	0.11%	0.23%
Worse than Parity	Worse than Parity Close to/Better than Parity			

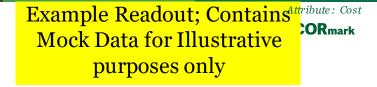
Observations





Total Supply Chain Management Cost as % of Product Revenue

Order Management Cost



Total Supply Chain Cost (% Revenue) vs. Order Management Cost						
8% _						
6% —						
	4.9%					
4% —		3.6%		3.1%		
			2.3%	3.176		
2% —				_		
0%	2.4%	1.5%	0.5%	1.1%		
J-70	Parity	Adv antage	Superior	Client		

Parity	Adv.	Superior	Client 2017
0.16%	0.10%	0.03%	0.48%
0.16%	NA	NA	0.18%
0.42%	0.22%	0.03%	0.20%
0.93%	0.60%	0.27%	0.24%
	0.16% 0.16% 0.42%	0.16% 0.10% 0.16% NA 0.42% 0.22%	0.16% 0.10% 0.03% 0.16% NA NA 0.42% 0.22% 0.03%

Worse than Parity	Close to/Better than Parity	Among Superior
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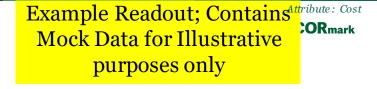
Observations





Total Supply Chain Management Cost as % of Product Revenue

Inventory Carrying Cost



Total Supply Chain Cost (% Revenue) vs. Inventory Carrying Cost						
8% _						
6% —	4.9%					
4% —		3.6%		3.1%		
2%			2.3%			
0%	0.9%	0.7%	0.6%	0.4%		
	Parity	Adv antage	Superior	Client		

Cost (% of Revenue)	Parity	Adv.	Superior	Client 2017
Opportunity Cost	0.71%	0.57%	0.43%	0.24%
Total Obsolescence for Raw Material, W IP and Finished Goods	0.33%	0.19%	0.03%	0.20%

Worse than Parity Close to/Better than Parity Among Superior

Observations

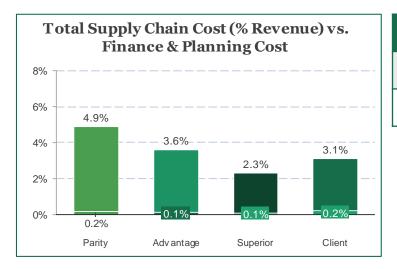




Total Supply Chain Management Cost as % of Product Revenue

Example Readout; Contains **Cost** Mock Data for Illustrative purposes only

Supply Chain-Related Finance and Planning Cost



Cy cle Time (Days)	Parity	Advantage	Superior	Client
Supply-Chain Finance Cost	0.05%	0.03%	0.02%	0.17%
Dem and/Supply Planning Cost	0.14%	0.09%	0.06%	0.06%

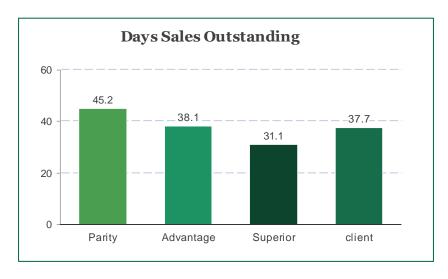
Worse than Parity	Close to/Better than Parity	Among Superior
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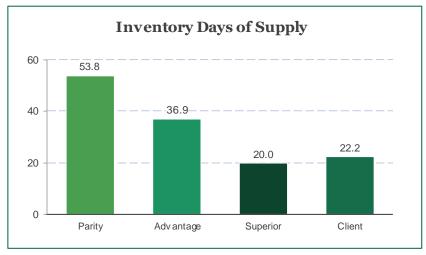
Observations





Day Sales Outstanding and Inventory Days of Supply Contains ORmark purposes only





Observations





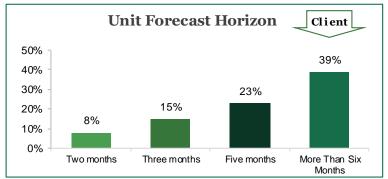
Inventory Management and Forecast Accura Mock Data for Illustrative purposes only

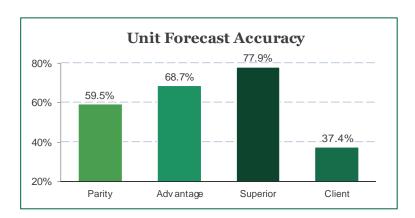
Inventory Days of Supply

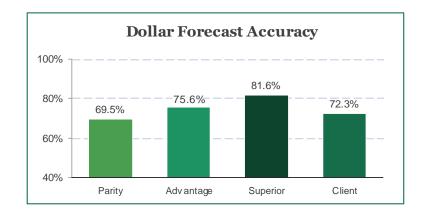
Worse than Parity

Metric	Parity	Advantage	Superior	Client
Total Inventory Days of Supply	53.8	36.9	20.0	22.3
Raw Material Days of Supply	16.7	NA	NA	7.3
WIP Days of Supply	3.3	NA	NA	0.0
Finished Good Days of Supply	37.8	20.0	2.2	5.5
Inventory Turns	4.9	3.7	2.5	11.9

Close to/Better than Parity







Observations

TBD.



Among Superior





Metric (%)	Parity	Advantage	Superior	Client
Plant Utilization	63.8%	72.8%	81.9%	51.0%
Production Plan Adherence	81.2%	83.1%	85.0%	84.7%
First Pass Yield	81.6%	81.7%	81.8%	83.1%
Ov erall Equipment Effectiveness (OEE)	7 2.3%	77.5%	83.6%	85.0%
Unplanned Downtime	3.6%	2.2%	0.9%	0.0%

Worse than Parity Close to/Better than Parity Among Superior		Worse than Parity		Close to/Better than Parity		Among Superior
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Observations





Return

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	ORmark

Metric (%)	Parity	Advantage	Superior	Client
Product Sales Returned by Customers	1.02%	0.60%	0.17%	0.85%
Material Spend Returned to Vendor	1.53%	0.94%	0.34%	4.25%
First Time Fix Rate	78.20%	NA	NA	69.45%

Worse than Parity Close to/Better than Parity	Among Superior
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Observations





Benchmarking Results

Detailed Benchmark Results - Complexity





Supply Chain Complexity

Example Readout; Contains Mock Data for Illustrative purposes only

Complexity is assessed along multiple dimensions

- High levels of supply chain complexity, left unmanaged, reduce operational performance and lead to higher costs
- Complexity-driven costs are often hard to identify, making it difficult to address

Supply Chain Complexity

Configuration and Structure

Physical product flow

- Number of manufacturing plants
- Number of distribution centers
- Number of customer locations

Processes and Systems

- Processes and systems in place to manage complexity, for example:
- · Sales and operations planning
- New product introduction
- Postponement and configuration strategy

Products and Services

- · Number of SKUs offered
- Number of annual product introductions





Product Portfolio Complexity

Example Readout; Contains ORmark Mock Data for Illustrative purposes only

Metric (Normalized by Client's Revenue)	0%20% Very Low	20%40% Low	40%60% Median	60%80% High	80%100% Very High	Client
Number of Finished Product Item Codes	2,120	3,808	7,019	c 15,580	31,801	12,222
Number of finished product Item codes purchased in a finished good state from a co-manufacturer or other 3rd party	2,149	2,579	3,297 C	6,313	7,105	3,935
New Product Introductions	41	283	733	1,652	6,101	2,490
End of Life products retired during the year	54	836 C	2,249	3,754	6,406	953



Observations



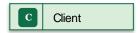


Supplier Base Complexity

Example Readout; Contains ORmark

Mock Data for Illustrative
purposes only

Metric (Normalized by Client's Revenue)	0%20% Very Low	20%40% Low	40%60% Median	60%80% High	80%100% Very High	Client
Number of Direct Material Suppliers	94 C	341	636	1,244	3,698	116
Number of Direct Material Suppliers that account for 80% of material expenditure	c 9	14	39	58	137	9
Number of Raw material item codes	896	7,204	10,475	20,113	c 26,606	26,350
Number of sub assembly item codes	45	552	857	1,267 C	5,610	1,700
Number of packaging item codes	148	309	399	933	C 3,653	2,550



Observations

• TBD.





Manufacturing and Customer Base Complexity Mock Data for Illustrative Contains Manufacturing and Customer Base Complexity Mock Data for Illustrative purposes only

Metric (Normalized by Client's Revenue)	0%20% Very Low	20%40% Low	40%60% Median	60%80% High	80%100% Very High	Client
Number of manufacturing locations outsourced	1	3	5	C 8	15	8



Metric (Normalized by Client's Revenue)	0%20% Very Low	20%40% Low	40%60% Median	60%80% High	80%100% Very High	Client
Number of active customers	192	799	1,180	8,157	8,687 C	25,176
Number of active customers that account for 80% of revenue	20	32	102	1,213	1,443 C	2,319
Number of orders received	c 61,632	88,885	106,092	152,680	215,704	47,904
Number of locations performing order entry and management locations	C 2	9	13	17	23	1

Observations

TBD.





Distribution and IT Complexity

Example Readout; Contains OR Mock Data for Illustrative purposes only

Metric (Normalized by Client's Revenue)	0%20% Very Low	20%40% Low	40%-60% Median	60%80% High	80%100% Very High	Client
Number of shipments/delivery notes	25,593	c 67,935	145,913	512,070	2,147,239	53,040
Number of ship to locations	795	2,462	C 16,051	26,359	48,481	13,336
Number of ship from locations	C 3	5	9	29	122	3
Number of distribution centers	2 C	4	7	19	1,981	3
Number of logistics/transportation suppliers	6	14	21	37 C	157	41

Metric (Normalized by Client's Revenue)	0%20% Very Low	20%40% Low	40%60% Median	60%80% High	80%100% Very High	Client
Number of unique systems/applications	7	c 25	55	82	110	13



Observations

TBD.





Example Readout; Contains
Mock Data for Illustrative
purposes only

Benchmarking Results

Detailed Benchmark Results - Qualitative Practices





Overview of PwC's Qualitative Practices Methodology,



The qualitative practice assessment framework evaluates how well the organization is integrating processes and information systems across the supply chain

Transitional Supply Chains Mature Supply Chains Stage 4: Differentiated Stage 3: Advanced Stage 2: Emerging Stage 1: Basic • IT and eBusiness solutions enable a collaborative supply Strategic partners ch ain strategy that: throughout the global supply Alignsparticipating ch ain collaborate to: com panies' business • Com pany-wide process - Identify joint business objectivesand and data model continuously objectives and action plans • Discrete supply chain associated processes m easured at the - Enforce common processes processes and data flows well Results in real-time com pany, process, and and data sharing documented and understood diagnostic levels planning, decision-making, Define, monitor, and react to Resources managed at and execution of supply • Resources managed at both per formance metrics department level and ch ain responses to functional and crossperformance measured at customer requirements functional levels functional level



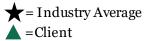


ORmark

Example Readout; Contain Schice Assessment

Level 1 Scorecard - Overall Supply Chain Practice Maturity purposes only

	Stage 1	Stage 2	Stage 3	Stage 4
STRATEGY		A 7	*	
PLAN			*	
SOURCE		*	A	
MAKE			*	
DELIVER			▲★	
RETURN			*	







Level 2 Scorecard - Strategy

Example Readout; Contains ORmark

Mock Data for Illustrative
purposes only

	Stage 1	Stage 2	Stage 3	Stage 4
STRATEGY		A 7		
Supply Chain Strategy		A *		
Supply Chain Risk Management		▲ ★		
Supply Chain Performance Management			*	
Supply Chain Process Architecture			*	
Supply Chain Talent Management		*		

★= Industry Average ▲ = Client



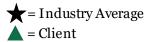


Level 2 Scorecard -Plan

Example Readout; Contains ORmark

Mock Data for Illustrative
purposes only

	Stage 1	Stage 2	Stage 3	Stage 4
PLAN			*	
Sales, Inventory, & Operations Planning (SIOP)			**	
Demand Planning			▲★	
Supply Planning			* •	
Inventory Management			**	



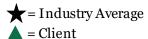




Level 2 Scorecard - Source

Example Readout; Contains Cornain Mock Data for Illustrative purposes only

	Stage 1	Stage 2	Stage 3	Stage 4
SOURCE		*		
Procurement Positioning			*	A
Sourcing Processes		*		
Order Processing		*		
P2P Systems		▲★		
Spend Data		A	*	
Procurement Organization Structure			*	A
Procurement and Benefits Management			* *	
Supply Risk Management		▲ ★		





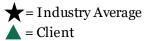


Level 2 Scorecard - Make

Example Readout; Contains ORmark

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	Stage 1	Stage 2	Stage 3	Stage 4
MAKE			*	
Product Planning and Management			*	
Maintenance Management		*	A	
Production Quality Management			*	A
Manufacturing Strategy			*	A
Material Issue, Move & Tracking			*	A



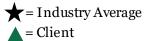




Level 2 Scorecard - Deliver

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	Stage 1	Stage 2	Stage 3	Stage 4
DELIVER			*	
Warehouse			* •	
Transportation		A	*	
Network Design		*	A	
Order Entry & Scheduling			▲ ★	
Invoicing & Cash Collection			▲ ★	



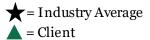




Level 2 Scorecard - Return

Example Readout; Contains Color of the Mock Data for Illustrative purposes only

	Stage 1	Stage 2	Stage 3	Stage 4
RETURN			*	
Service Parts Planning		*		
Reverse Logistics			*	
Warranty and Repair		*		A
Field Services Operations			*	A







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APPENDIX About PwC





PwC Benchmarking Team Contact information Mock Data for Illustrative

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PwC Benchmarking Services

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PwC Benchmarking

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Varun George Varghese Senior Associate Operational Effectiveness





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Plan

Processes that balance aggregate demand and supply to develop a course of action which best meets sourcing, production and delivery requirements

Source

Processes that procure goods and services to meet planned or actual demand

Make

Processes that transform product to a finished state to meet planned or actual demand

Deliver

Processes that provide finished goods and services to meet planned or actual demand, typically including order management, transportation management, and distribution management

Return

Processes associated with returning or receiving returned products for any reason. These processes extend into postdelivery customer support





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Reliability

Delivery Performance to Request Date: The percentage of orders that are fulfilled on or before the customer's requested date used as a measure of responsiveness to market demand. Delivery measurements are based on the date a complete order is shipped or the ship-to date of a complete order. A complete order has all items on the order delivered in the quantities requested. An order must be complete to be considered fulfilled. Multiple line items on a single order with different planned delivery dates constitute multiple orders, and multiple planned delivery dates on a single line item also constitute multiple orders.

Delivery Performance to Commit Date: The percentage of orders that are fulfilled on or before the Commit date, used as a measure of internal scheduling systems effectiveness. Delivery measurements are based on the date a complete order is shipped or the ship-to date of a complete order. A complete order has all items on the order delivered in the quantities requested. An order must be complete to be considered fulfilled. Multiple line items on a single order with different planned delivery dates constitute multiple orders, and multiple planned delivery dates on a single line item also constitute multiple orders.

Perfect Order Fulfilment: The percentage of orders meeting delivery performance with complete and accurate documentation and no delivery damage. Components include all items and quantities on-time using the customer's definition of on-time, and documentation - packing slips, bills of lading, invoices, etc.





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Responsiveness

Order Fulfilment Cycle Times (OFCT) includes any and all elapsed time from customer signature through order receipt, order entry, engineering and design time, start and complete manufacturing, pick/pack, transportation, customer receipt, and installation complete. Please answer in calendar days or fractions of calendar days for the calendar year. Only fill in for the relevant manufacturing strategy used at your company.

The process of manufacturing in a make-to-order environment adds value to products through mixing, separating, forming, machining, and chemical processes for a specific customer order. Products are completed, built or configured only in response to a customer order, the customer order reference is attached to the production order, attached to or marked on the product upon completion of the make process and referenced when transferring the product to Deliver. The product is identifiable throughout the Make process, as made for a specific customer order.

Examples of alternative or related names for Make-to-Order are: Build-to-Order (BTO), Assemble-to-Order (ATO), Configure-to-Order (CTO), and postponement.

Agility

Upside Supply Chain Flexibility: Number of days required to achieve an unplanned sustainable 20% increase in quantities delivered. The calculation of supply chain flexibility requires the calculation to be the least time required to achieve the unplanned sustainable increase when considering Source, Make, and Deliver components.

Upside Supply Chain Adaptability: Maximum sustainable percentage increase in quantity delivered that can be achieved in 30 days. Component metrics can be improved in parallel, and as a result, this calculation requires the result to be the least increase in quantity sustainable in 30 days (30 days may be unobtainable or too conservative for certain industries). This increase is unforeseen and must be sustainable. Consider the typical products managed within the predominant product line.





Example Readout; Contains Mock Data for Illustrative purposes only

Total Supply Chain Management Cost

Total cost to manage order processing, acquire materials, manage inventory, and manage supply-chain finance, planning, and IT costs, as represented as a percent of revenue. Accurate assignment of IT-related cost is challenging. It can be done using Activity-Based-Costing methods, or based on more traditional approaches. Allocation based on user counts, transaction counts, or departmental headcounts are reasonable approaches. The emphasis should be on capturing all costs, whether incurred in the entity completing the survey or incurred in a supporting organization on behalf of the entity. Reasonable estimates founded in data were accepted as a means to assess overall performance. All estimates reflected fully burdened actuals inclusive of salary, benefits, space and facilities, and general and administrative allocations.

Asset Management Efficiency

Total Inventory Days of Supply: Total gross value of inventory at standard cost before reserves for excess and obsolescence. Includes only inventory that is on the books and currently owned by the business entity. Future liabilities such as consignments from suppliers are not included.

Average Payment Period: The average time from receipt of production-related materials and payment for those materials. Production-related materials are those items classified as material purchases and included in the Cost of Goods Sold (COGS) as raw material purchases. (An element of Cash-to-Cash Cycle Time)

Days Sales Outstanding: Measurement of the average collection period (time from invoicing to cash receipt).

Cash-to-Cash Cycle Time: The time it takes for cash to flow back into a company after it has been spent for raw materials





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Benchmarking is used as a guide to get a fact-based assessment of the opportunities for improvement and the value from achieving these results:

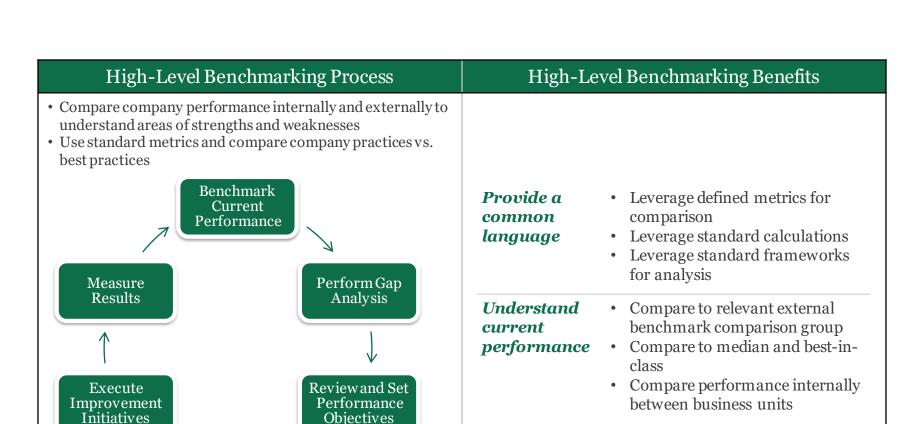
- Understand a company's position relative to population's Parity, Advantage and Superior
 - *Parity* indicates the 50th percentile of performance in the SCORmark database
 - *Advantage* is the performance level halfway between Parity and Superior (i.e., 70th percentile).
 - *Superior* indicates the 90th percentile of companies in the database.
- Provide a basis of comparison against similar Supply Chains
- Provide insight into potential opportunities for growth and improvement
- Establish performance targets





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Benchmarking is a powerful tool, because "you can't manage what you don't measure"; it is an early step in operations improvement







Establish performance targets

achieve targets

Establish, prioritize initiatives to

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Identify and

opportunities

quantify

A Logical Next Step Is To Prioritize Improvements and Take Contains **Action!**

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PwC is available to help continue supply chain improvement efforts. We are:

Objective and factual

- Supports senior management to make key decisions
- Acts as a "blind trust" manager where information can not be shared

Focused on the value proposition

- Keeps all decisions focused on highest value creation in shortest time frame
- Works across functions and processes where organizations have limits

Experienced in managing the process

- Provides expertise in critical path management: Internal staff do not have a learning curve
- Understands human dimension of change

Committed to knowledge transfer

- Ensures "leave behind" process
- Migrates from "player/coach" to "coach/cheerleader": Positions owners to be successful

We welcome the opportunity for further conversations about improvement projects as well as engaging with other divisions who might also be interested in benchmarking





PwC continues to earn top recognition from clients, industry mock Data for Illustrative analysts, and competitors

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236,000 professionals worldwide 158 countries and locations **Broad client base** across Fortune 1000 **Works with Private** and Public Companies

No. 1

Global Business **Consulting firm** 85%

Fortune Global 500 are **PwC clients**

Leader

Gartner CRM Service Provider

No. 1

Product and Service Operations Kennedy Information

No. 1

In Innovation **Solutions** Kennedy Information No. 1

In Operations Strategy IDC (2012)

No. 1

Global Mergers & Acquisitions Advisorv Kennedy Information $\overline{\text{No. 1}}$

Of 8 named to **Kennedy Vanguard** of Supply Chain Consulting Kennedy Information

Enterprise Applications Partnerships

SAP Oracle Salesforce.com Jive.

We have an unparalleled combination of global scale and functional expertise





PwC + Strategy& is a recognized, global leader in operations mock Data for Illustrative consulting and supply chain benchmarking

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PwC established the term "supply chain management" (1982) and co-led development of the SCOR Model (1996), we continue to lead the industry

Kennedy Vanguard

Oracle Applications Implementation Services

Gartner Magic Ouadrant Leader [1]

Change Management Consulting

Kennedy Vanguard Leader [4]

Operations Consulting Services

An IDC MarketScape Leader [7]

"PwC is seen as the most capable of all firms at providing a full spectrum of business consulting services on operations engagements."[8]

Supply Chain Risk Management Consulting

Kennedy Vanguard Leader [6]

Gartner Magic Quadrant Leader [2]

New Market Entry Strategy Consulting

Kennedy Vanguard Leader [5]

"For precise, end to end supply chain benchmarks, consider (PwC's) The **Performance** Measurement Group"

-AMR Research

"Gartner supply chain leaders also hold in high regard (PwC's) ability to benchmark supply chains....consider PwC. particularly if you are in the market for benchmarking services"

Gartner

[1] Gartner Research, "Magic Quadrant for Oracle Applications Implementation Services, Worldwide," September 2013, Alex Soejarto, Susame Matson, [2] "Magic Quadrant for Business Operations Consulting Services, Worldwide," December 23, 2013, Dana Stiffler. Gartner does not endorse any vendor, product, or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. Gartner research publications consist of the opinions of Gartner's research, organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose; [3] Kennedy Research, "Manufacturing & Production Strategy Consulting," [4] "Change Management Consulting, Market," [5] New Market Entry Strategy Consulting," [6] "Supply Chain Risk Management Consulting," [4] "Change Management Consulting Market," [5] New Market Entry Strategy Consulting," [6] "Supply Chain Risk Management Consulting," [4] "Change Management Consulting," [6] "Supply Chain Risk Management Consulting," [6] "S Information LLC. Reproduced under license. [7,8] IDC, IDC MarketScape: Worldwide Operations Cansulting Services 2012 Vendor Analysis, Cushing Anderson, July 2012 (IDC #236022).





PwC brings integrated best of the breed supple Readout; Contains and thought lead are live in the breed supple Readout; Contains and thought lead are live in the breed supple Readout; Contains and thought lead are live in the breed supple Readout; Contains and thought lead are live in the breed supple Readout; Contains and thought lead are live in the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and thought lead to the breed supple Readout; Contains and the breed suppl and thought leadership to its clients

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Business Strategy

- Pre-eminent strategic management consulting firm
- Explicit focus on pragmatic capability driven transformation and growth
- Broad operational design capabilities





Operational Excellence

- Leading Operations Strategy **Consulting Firm**
- Deep expertise in supply chain design and implementation
- Unique benchmarking capabilities through PwC's Performance Measurement Group













Technology Strategy & Implementation



- · Dominant technology strategy and eBusiness design firm
- Explicit focus on strategic use of technology architecture and capability planning

Digital /Omnichannel Leadership





- Thought-leading boutiques in social media and digital
- Extensive experience in consumer marketing and engagement design





We help clients address end-to-end supply chain performance Mock Data for Illustrative challenges while thinking like a "ruthless competitor"



Global Productivity and Agility

Cost Optimization

Tax Efficient Supply Chain Operational Excellence

Plan & Execute → Effective & Efficient

Sense & Respond → Agile & Reliable

Product Life Cycle Mg t	Operations Strategy & Transformation	Qu ality Sy stems	Supply Chain Planning	Procurement & Sourcing	Logistics and Distribution	Operational Excellence
 Design for supply chain Design collaboration NPI process design and optimization Technology transfer & scale up 	Assessment & an alysis Network optimization Operational strategy Performance metrics Risk management	Culture change Design controls Assessment Consent decree remediation Gov ernance & in frastructure	Dem and planning Supply planning Sales and operations planning Clinical supply chain	 Strategic sourcing Procurement technology Procurement transformation Contract manufacturing 	Logistics strategy Logistics operations Transportation Customs & duties Track/tracee-pedigree	 Lean operations Cy cle time reduction In v entory optimization Cost reduction

Supply Chain IT Strategy

People & Change

Governance, Risk, Compliance





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