



Managing Supply Chain Costs

Leadership Forum

March 28, 2017



PARKER SMITH FEEK



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PRESENTER

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Western Integrated Technologies

Managing Supply Chain Costs

Carey Suto



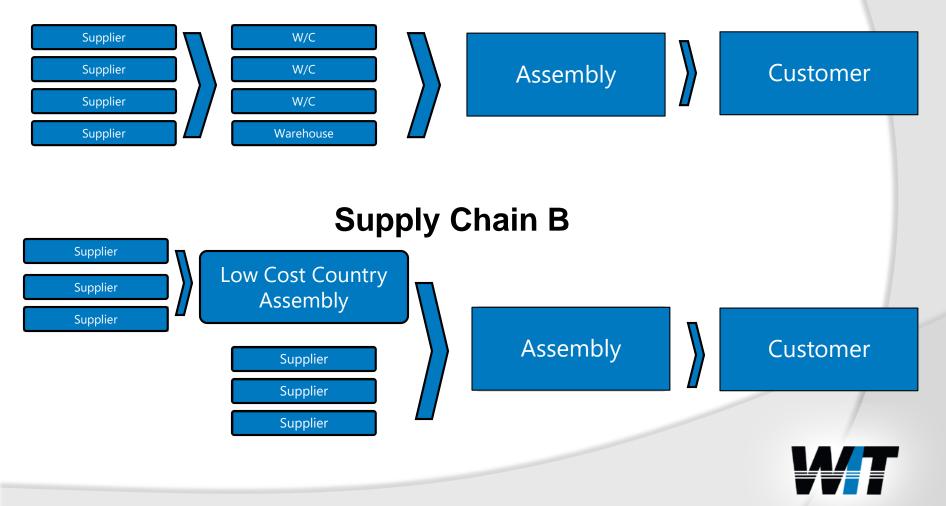
Discussion Topics

- Responsibility of Supply Chain Managers
- Set Performance Goals
 - Objective Goals
- Market Test Commodities
- Ancillary Cost Drivers
 - Logistics, MRO, Hidden Costs
- Supply Chain Collaboration



Supply Chains Compete

Supply Chain A



Supply Chain Responsibility

- o Mitigate Risk in Supply Chain
 - Quality
 - Delivery
 - Cost
- o Sustainable
 - Collaboration

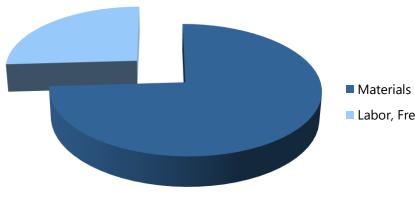


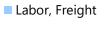
Supply Chain Cost Drivers

- Materials
 - Major component of COGS
- Logistics
 - Pacific NW is not an optimal location for managing inbound freight costs
- o Maintenance, Repair, Operations (MRO)
 - Often overlooked
- 'Hidden Costs'
 - Warranty
 - Field Repairs



COGS







COGS Breakdown

Item	Value	Percentage of COGS
COGS	\$13.5M	
Purchased Materials	\$10.0M	74%
Labor	\$ 3.14M	23.3%
Freight Costs	\$ 0.360M	2.7%



Penny Saved, Penny Earned

'Power of the Dollar'

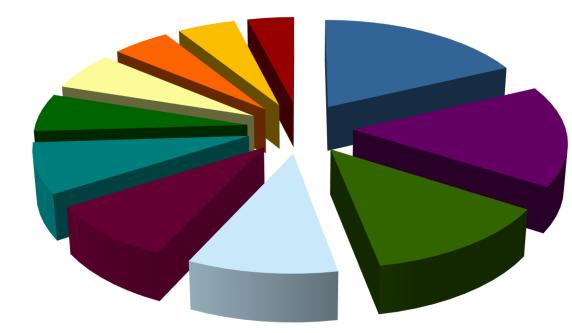
	Material Cost Savings	Sales Increase
	(\$25,000)	\$500,000
Operating Income Impact (5% OI)	\$25,000	\$25,000



Market Test Commodities



Material Spend by Commodity



- Pumps and Motors
- Hose, Tubing, Fittings
- Metals
- Hydraulic Valves and Manifolds
- Cylinders and Actuators
- Electronics
- Gearboxes
- Pneumatics
- Filtration
- PTOs
- Accumulators and Coolers



Market Test Commodities

- Identify your suppliers competition
- Send out quote packages
- Analyze results based on total cost
 - Historical Quality and Delivery
 - Supplier geographic location
 - Annualized material cost impact
 - Integration
 - Range from EDI Transactions to on-site support



Objective Goal Setting

2018 Material Cost Savings	2018 Goal	2018 Actual
1% Net Reduction	(\$100,000)	(\$)

2018 Cost Avoidance	2018 Goal	2018 Actual
.5% (based on previous year expense)	(\$50,000)	(\$)

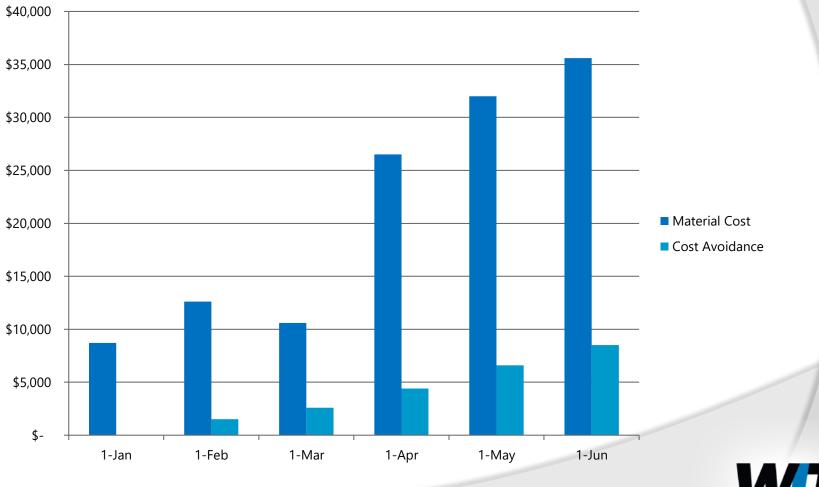


Track and Report Cost Movements

- Report on Pending Cost Movements
 - Eg., supplier notifies of cost change
 - Quantify and Report
- Report on Actual Cost Movements
 - Celebrate successes
 - Discuss threats
 - Define independent verification
- Track and Report Cost Avoidance
 - Mitigation through negotiated solution

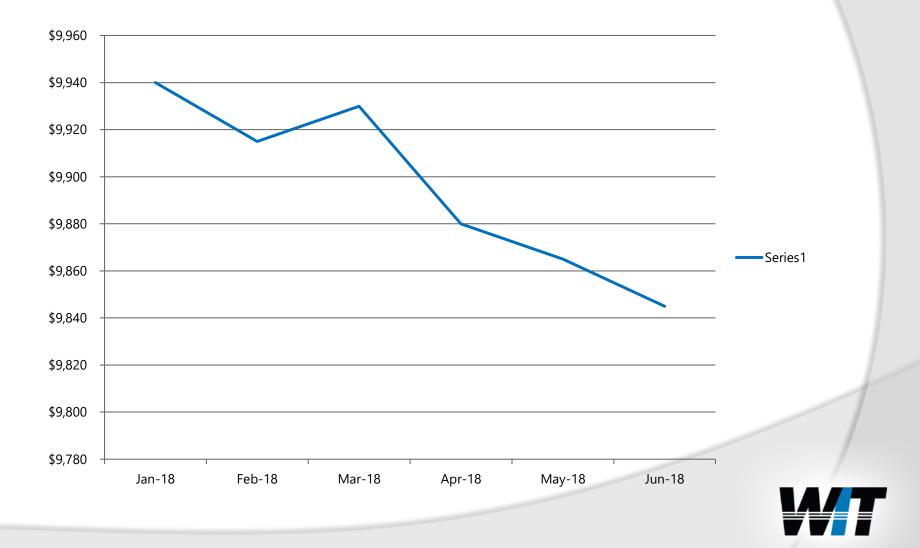


Track Cost Movements



WT

Validation of Cost Movement



Track Raw Material Costs



Currency Exchange Rates (RMB/USD)



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Currency Exchange Rates (CDN/USD)





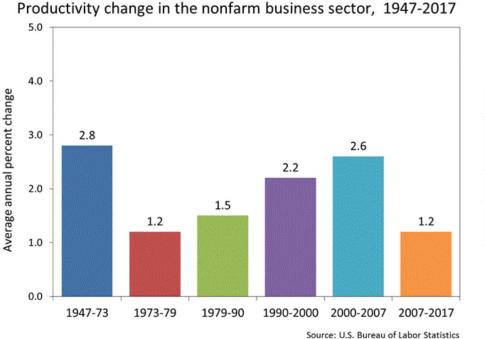
Material/Labor/Overhead

Cost Driver	Content	Cost	Comment
Material	1 lbs. Copper	\$3.20/lb.	Uncontrollable
Labor	4 minutes	\$4.00	Controllable*
Overhead		\$2.80	Controllable*

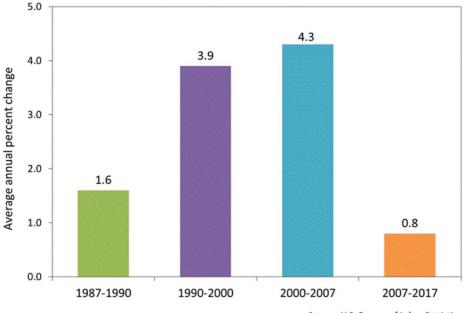
*It is debatable if Labor and Overhead is 'Controllable'. I take the position with Suppliers that both cost drivers can be offset through productivity gains.



Productivity Gains



Productivity change in the manufacturing sector, 1987-2017



Source: U.S. Bureau of Labor Statistics



Indexing Raw Materials and Currency

Index Date	Part Cost	Primary Material	Material Weight	Material Cost/lb.
Dec. 2015	\$10.00	Copper	1 lb.	\$2.00
Feb. 2018	\$11.20	Copper	1 lb.	\$3.20
Index Date (USD/CAD)	Part Cost in USD	Currency Exchange Rate CAD/USD)	Part Cost in CAD	Impact
January 2016	\$10.00	\$.686	C\$ 14.58	
February 2017	\$11.49	\$.788	C\$ 12.69	C\$ +1.89



Ancillary Costs Drivers

- Freight Costs
 - PNW is not optimal location to manage logistics costs
- Maintenance, Repair, Operations (MRO)
 - Manage and market test contract renewals
- Hidden Costs
 - Rework, Warranty, Field Repairs

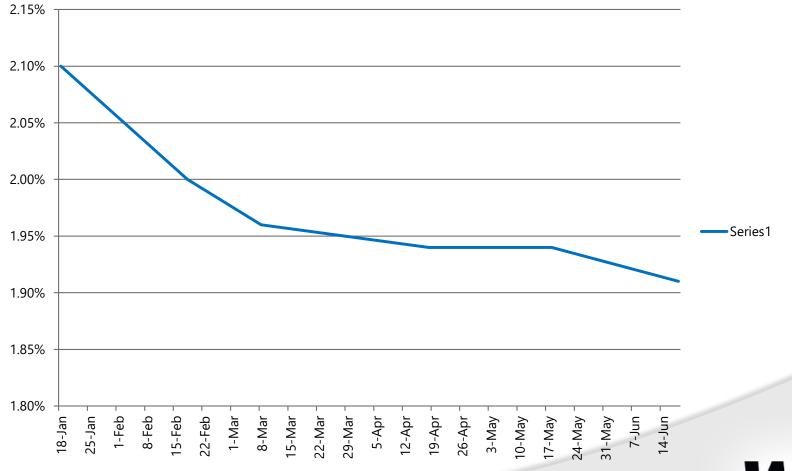


Ancillary Costs Drivers

2018 Freight Reduction	2018 Goal	2018 Actual
1% Net Reduction	(\$3,600)	(\$)
2018 MRO Cost Movement Goal	2018 Goal	2018 Actual
1% Net Reduction	(\$5,000)	(\$)
Hidden Costs	2018 Goal	2018 Actual
1% of Sales	< \$200,000	(\$)

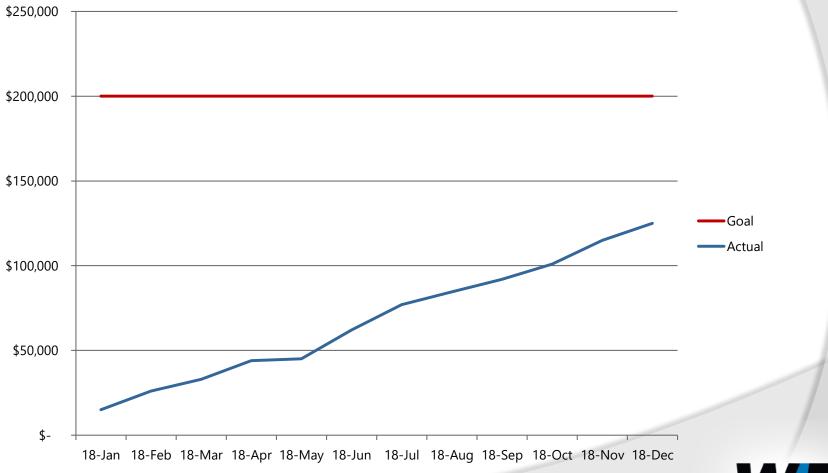


Track Freight Costs % of Sales





Hidden Costs as % of Sales





Supply Chain Collaboration

- o 'Club'oration
 - Leverage Supply Base to meet cost objectives
 - Creates win/lose
 - Increases risk of Supply interruption
- Collaboration
 - Create win/win
 - Helps assure reliable supply
 - Requires Enterprise wide commitment



Power of Collaboration

- You Tube Link:
 - <u>https://www.youtube.com/watch?v=s2XLJAS</u>
 <u>bCwY</u>
- Computer Link:
 - ..\Downloads\Fastenal Case Study with Red DOT.mp4



Summary

- Mitigate Risk in Supply Chain
 - Evaluate if your business has a balanced focus on costs and new sales
 - Validate market position within commodities
 - Track and validate cost movements
 - Remember to look at ancillary cost drivers
 - Freight, MRO, Warranty
 - Collaborate with your business partners
 - Create sustainable supply chains



FASTENAL

Case Study Red DOT Corporation

QUESTIONS:



APRIL ROVING ROUND TABLES

CAMPS Manufacturing Members will be hosting three separate, simultaneous Plant Tours on

April 12th, from 10:00am to 12:00pm.

REGISTER FOR THIS TOUR



814 44th Street NW, Suite 103 / Auburn, 98001

The Belshaw Adamatic Bakery Group brand is applied to all retail bakery equipment for the North American market, including donut production equipment, fryers, convection ovens and deck ovens.

Tour Belshaw's 120,000 sq. ft. production facility and see where they design and manufacture their equipment using state-of-the art machine tools and quality craftsmanship.

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Mid-Mountain Materials, Inc. engineers and manufacturers solutions for high-temperature resistant applications in industries around the globe.

Tour their plant and see how their vertical integrations give them the ability to provide a competitively priced product, with a shorter lead time and increased quality control.

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GM Nameplate creates nameplates to provide a wide variety of custom solutions from small components to completely assembled devices.

All of GMN's facilities are ISO-9001 certified and operate under Continuous Improvement, Lean and Six Sigma manufacturing principles. Tour their facility to see first hand how their focus on quality assurance and workplace efficiency has guided their success in highly regulated industries, like medical and

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