How Simpson Strong-Tie is Building Supply Network Optimization Inside SAP S/4 HANA

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Chicago

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In This Session You Will Discover...

≠ Simpson Strong Tie's Supply Chain Optimization Vision

≠ The challenges faced in realizing that vision

≠ The actions taken to enable the vision

≠ The results of the technology decision, deployment, and continued innovations

What We'll Cover

- ≠ Company Overview
- ≠ Supply Chain Challenges
- ≠ Technology Options Considered
- ≠ Results Thus Far
- ≠ What's Next
- ≠ Wrap Up

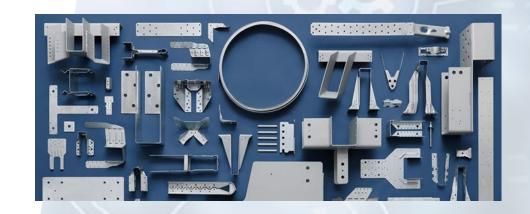


Company Overview

For more than 60 years, Simpson Strong-Tie has focused on creating structural products that help people build safer and stronger homes and buildings.

Considered a leader in structural systems research, testing and innovation, Simpson Strong-Tie works closely with industry professionals to provide code-listed, field-tested products and value-engineered solutions.

Our structural products are recognized for helping structures resist high winds, hurricanes and seismic forces. From product development and testing to training and engineering and field support, Simpson Strong-Tie is committed to helping customers succeed.





Additional Company Info



Markets

- **≠** Residential Contraction
- **≠** Commercial Contraction
- **≠** National Retail and DIY
- **≠** Building Technology
- ≠ OEM

Products

- ≠ Engineered structural connectors
- **≠** Fasteners and fastening systems
- **≠** Lateral-force resisting systems
- **≠** Anchor Systems
- ≠ Products that repair, protect and strengthen concrete

Customers

- **≠** Retailers
- **≠** Co-ops/Buying Groups
- **≠** General Contractors
- Specifiers (architects and engineers)
- ≠ DIYers

Supply Chain Strategy

Barclay Simpson Nine Principles of Doing Business

- **Relentless Customer Focus** and Customer Service
- Focus on the **Long-Range View**
- **Enable Growth and Risk-Taking Innovation**
- **Have Fun, Be Humble**







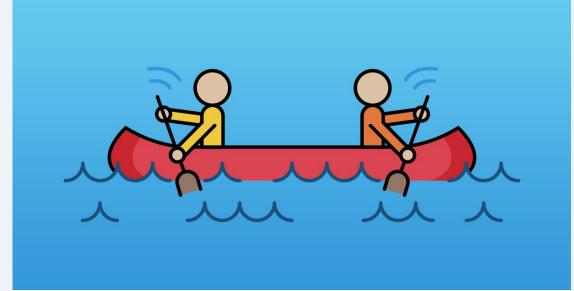




Business Challenges

- **≠** No forecasting or performance tracking
- **≠** Manual demand planning process
- **≠** Limited visibility into production capacity
- **≠** Disjointed supply chain analytics
- ≠ Lack of standardization of supply chain processes





Options Considered

-Started SAP Blueprinting early 2017--SAP Go Live Feb 2018-

Long-Range View and Enable Growth

- Least amount of customization to get started but allowed for a lot of flexibility and expansion
- **≠** Shorter Learning Curve
- **≠** User friendly interfaces
- **≠** Lowest total cost of ownership in the industry



Ifm Supply Chain Addressed Our Challenges by...

Demand Planning

Out of the Box

- ≠ Statistical Planning
- ≠ Process Standardization
- ≠ Forecast Performance Tracking

Next Level

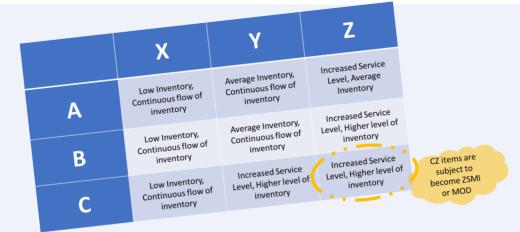
- ≠ Outlier Management
- ≠ Forecast Model Evaluation
- ≠ Improved Sells to Operations Communication



GIB Addressed Our Challenges by...

Inventory Optimization

- Harmonized Analytics
- Process Standardization
 - → Process Automation
 - Mass Data Maintenance (SS, Lot Sizing, etc)
 - Intercompany Plant to Plant Relations
- User Friendly and Exception Message ranking





ABC/XYZ	LSP
AX	WB
AY	WB
AZ	Z2
BX	WB
BY	Z2
BZ	ZM
CX	Z2
CY	ZM
CZ	M2

Manage by exception – Employee Efficiency – Increased Customer Service

ifm Supply Chain Addressed Our Challenges by...

Production Planning & Scheduling

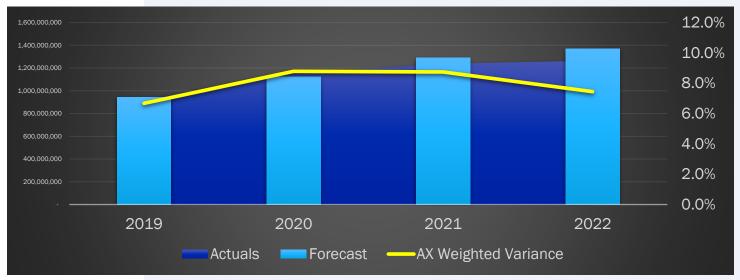
- **≠** Visualize Capacities
- ≠ Easily Adjust and rebalance schedules
- **≠** Flexible and Proactive Customer Service
- ≠ Long term Capacity Planning S&OP

	Dooldon	M 02/2022	M 02/2022	M 04/2022	M 05/2022	M 06/2022	M 07/2022	M 00/2022	M 00/2022	M 40/2022	M 44/2022	M 42/2022	M 04/2024	M 02/202
	Backlog	WI 02/2023	M 03/2023	WI 04/2023	M 05/2023	IVI 06/2023	M 07/2023	M 08/2023	M 09/2023	M 10/2023	M 11/2023	M 12/2023	M 01/2024	WI 02/202
[1300] AM60 (001)	0.00	100.00%	68.65%	62.24%	39.50%	89.14%	38.39%	64.98%	37.27%	69.82%	76.31%	34.82%	25.50%	33.54%
[1300] AM61 (001)	0.00	100.00%	38.88%	39.84%	39.33%	26.63%	56.85%	41.33%	31.74%	63.11%	33.41%	29.11%	13.92%	32.44%
[1300] AM62 (001)	0.00	76.08%	48.03%	96.68%	110.23%	107.25%	115.32%	99.09%	95.94%	119.21%	103.15%	105.75%	86.73%	101.13%
[1300] AM63 (001)	0.00	103.46%	40.05%	21.24%	36.51%	31.37%	39.67%	22.07%	37.59%	36.23%	28.03%	20.48%	37.22%	1.13%
[1300] AM64 (001)	0.00	100.00%	15.75%	0.00%	38.12%	31.33%	24.46%	32.26%	39.33%	16.60%	36.66%	20.89%	11.33%	0.00%
[1300] AM65 (001)	0.00	100.42%	70.60%	33.16%	54.67%	65.05%	45.27%	80.40%	47.39%	60.66%	70.38%	37.52%	27.21%	27.29%
[1300] AM66 (001)	0.00	100.00%	39.93%	46.55%	70.21%	33.34%	72.43%	52.10%	29.67%	65.25%	52.90%	37.07%	23.43%	6.01%
[1300] AM67 (001)	0.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
[1400] MAP60A (001)	203.75	192.83%	95.70%	149.88%	119.86%	111.53%	163.37%	105.28%	125.29%	139.11%	134.28%	134.58%	52.31%	36.18%
[1400] MAP60B (001)	58.13	27.77%	11.41%	21.93%	10.38%	16.66%	21.03%	15.71%	15.72%	19.08%	17.16%	16.49%	11.81%	7.76%
[1400] MAP60C (001)	0.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
[1100] AMTP1 (001)	146.30	7.94%	4.60%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
[1100] AMTP2 (001)	0.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
[1100] AMTP3 (001)	24.11	49.21%	99.69%	108.08%	114.12%	147.77%	140.22%	114.30%	144.62%	139.33%	125.73%	100.12%	79.63%	73.32%
[1100] AMTP4 (001)	0.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Tangible Improvements thus far...

≠ Improved forecast accuracy

≠ Improved Lead time Plant to Plant Lead time Variation





Tangible Improvements thus far...

- Time/Labor Savings
 - Auto Ordering
 - Exception Message Management (20/15's)

Optimal and more predictable Inventory Levels

Predictable Capacity Issues

Predictable Customer Service Issue

Estimated 2hr a day X 12 Inventory Control Personnel

Focus on the Exception

EGSC Target Inventory Status by Material Type (% out o

Target Band)							
	Components (HALB)	Buyout (<i>HAWA</i>)	Finished Good (<i>ZFIN</i>)	Total FG&C			
1030	Within Target	-8.5%	-7.5%	Within Target			
1050	51.9%	73.1%	Within Target	19.7%			
1100	32.4%	18.6%	Within Target	Within Target			
1200	0.5%	Within Target	13.7%	7.4%			
1300	41.7%	3.8%	8.3%	9.8%			
1400	Within Target	Within Target	13.8%	8.7%			
1500	44.3%	-5.4%	Within Target	Within Target			
Total	30.2%	Within Target	1.7%	1.0%			

The Next Steps in Process Improvement

- ≠ Streamline End-to-End Simulations
- ≠ Customized Interactive Capacity Simulation Dashboard
- Automated level loading of demand around capacity constraints at the plant AND aggregate level
- ≠ Supply Network Optimization
- Custom Exception Messages to promote Inventory Rebalancing
- ≠ Automated Rebalancing
- Explore varying Inventory Planning Concepts by product groups or types





Wrap Up

- Supply Chain Management is a mission critical process for Simpson Strong Tie
- Choosing a set of tools that are perfectly aligned with SAP allowed us to move quickly and scale globally
- We started with the basics, ensuring our processes were consistent and durable enough to survive personnel changes
- We continue to improve and mature our processes and adopt new technologies from ifm supply chain
- Ifm Supply Chain has evolved with us as we've migrated from SAP ECC to S/4HANA

Key Points to Take Home

- Limited visibility into production capacity, disjointed supply chain analytics, and lack of standardization of supply chain processes are key challenges
- Having a clear supply chain optimization vision and taking actions to enable it can lead to tangible improvements in forecast accuracy, lead times, labor savings, inventory levels, and customer service
- Choose a set of tools that are perfectly aligned with SAP can allow for quicker scalability and global expansion
- Focus on the people as much as the technology and processes when implementing a supply chain optimization strategy

Where to Find More Information

Company and product resources:

- Simpson Strong-tie official website: <u>www.strongtie.com</u>
- ifm's Demand Planning solution: ifm.com/us > Supply Chain > Operations Planning > Demand Planning
- ifm's Inventory Management solution: ifm.com/us > Supply Chain > Operations Planning > Inventory Management
- ifm's Procurement solution: ifm.com/us > Supply Chain > Execution & Integration > Procurement
- Ifm's Production Planning solution: ifm.com/us > Supply Chain > Operations Planning > Production Planning

Thank you! Any Questions?

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Please remember to complete your session evaluation.

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