

Michael G. Beason - Chairman for the SEA Organization



"SEA is a strategy. Other suppliers will try to compete with us based on tactics - reacting to situations as they arise.

SEA's strategy is to establish our reputation as the best suppliers in the industry. No tactic will be effective against us.

As the industry consolidates and speeds up, we'll be the ones our customers see as those who 'get it' and are busy solving their problems."

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Objectives

- Provide information about SEA and the reasons for the industry conversion effort
- Provide an executive overview of the implementation process for the Lean Enterprise System
- Prepare the manager for the implementation of SEA LES models and methodologies with some "Lessons Learned"

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Our Industry Lean Effort Various entities Public and private developing tools, Boeing Northrop Lockheed entities providing And more standards, and services policies Consultants LAI **MEPs NACFAM Tier One Suppliers** DoD AIA Tiers Two - Four SEA 2012 All Rights Reserved

SEA

- → SEA was founded by Boeing, Northrop, Lockheed Martin, Raytheon, United Technologies, Parker Aerospace, Honeywell, and more.
- SEA was established in 2003 as a non-profit alliance directed by sub-tier suppliers with the mission of accelerating supply chain performance for the aerospace and defense industries.
- Customers participate in SEA at no cost and gain the resources of a world-class supplier development system.
- Suppliers participate in SEA paying the annual membership fee and follow a step-by-step process that improves performance and visibility.

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Automotive

- According to A.T. Kearney, there is a case to be made for the comparison of what happened in the automotive supply chain to what is happening now in the Aerospace supply chain
- What happened in the automotive industry?
- They've already done this for the past 15 years what can we learn?

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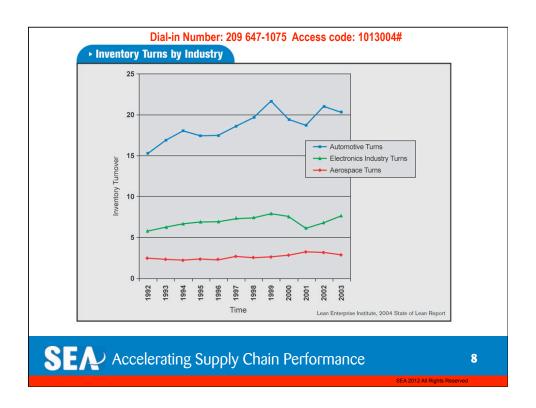
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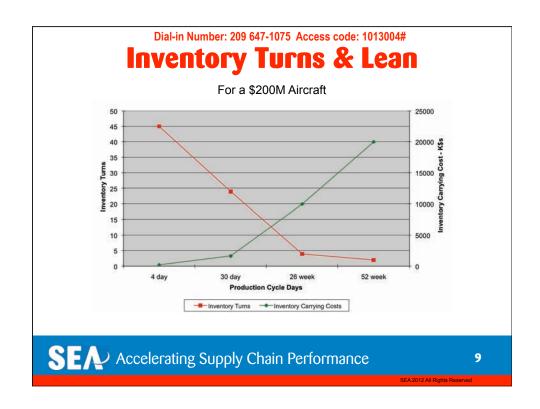
Four Major Trends

- → Globalization
- → Consolidation
- → Supply Chain Integration
- → Lean Manufacturing

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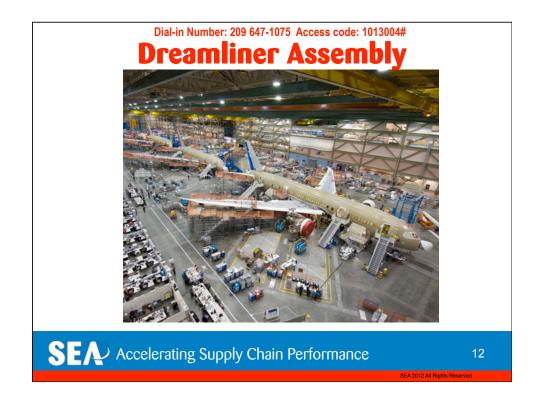
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Boeing 737



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Pratt & Whitney

"To capitalize on an emerging market that will be booming in a few years, Pratt & Whitney Canada needs to deliver a jet engine every four hours—a feat that would be impossible without the input of its supply base."

"We have to drive a pulse or drum beat that triggers the supply chain to deliver to a takt time (customer demand rate) of every four hours," says DiPerna.

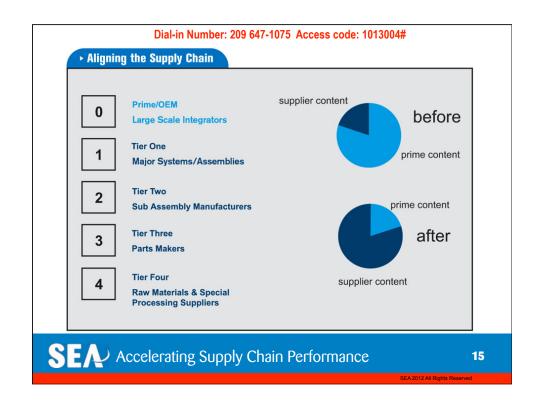


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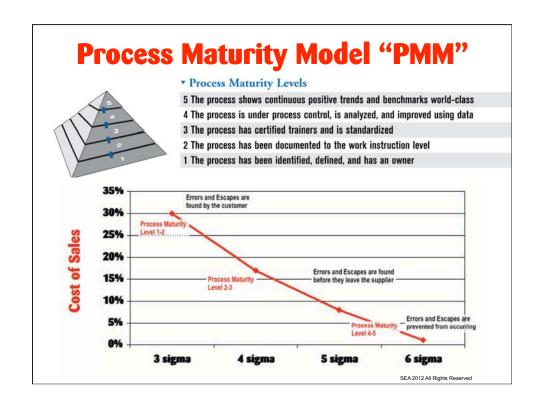
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The SEA Roadmap

	Stage One	Stage Two	Stage Three
	Stabilization	Supply Chain Integration	Sustainability
Leadership & Culture	Establish high-performance leadership system	Focus on supply chain integration	Focus on new product startup
Workforce Development	Establish workforce development system	Implement process control	
Operational Excellence	Accelerate sustainable lean performance improvements	Accelerate flow production	
Business Results	Establish industry-standard performance metrics	Show measureable improvement	Demonstrate reduced ris

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The SEA Roadmap

·	Stage One	Stage Two	Stage Three
	Stabilization	Integration	Sustaining
Leadership & Culture	1.1.1 Strategic Planning Process 1.1.2 Leadership Communication Process 1.1.3 Organizational Performance Review Process 1.1.4 Continuous Improvement Management Process 1.1.5 Workforce Development Integration Process	1.2.1 Supply Chain Integration Process	1.3.1 New Product Startup Process
Workforce Development	2.1.1 Job Skills & Cross-Training Certification Process	2.2.1 Continuous Improvement Process	
Operational Excellence	3.1.1 Kaizen Process 3.1.2 65 Visual Workplace Process 3.1.3 Quick Changeover/SMED Process	3.2.1 Material Management Process 3.2.2 Production Planning Process 3.2.3 Development Process	
Business Results	4.1.1 Inventory Turns 4.1.2 Sales/Employee 4.1.3 On-Time Delivery 4.1.4 Parts per Million		4.3.1 Process Maturity 4.3.2 Quick Ratio

2011 Roadmap v

Certification Level
Bronze OTD 90-94.9%, PPM<15,000
Silver OTD 95-98.9%, PPM<10,000
Gold OTD 99-100%, PPM<2,500

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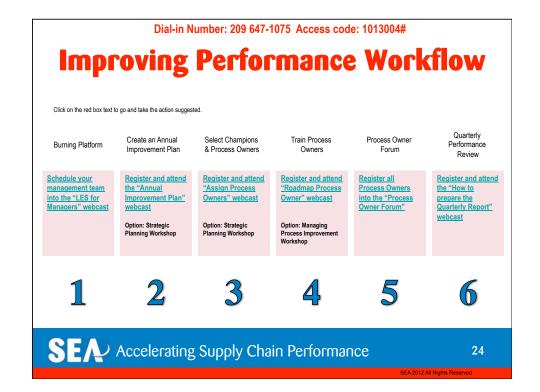
What's Important to YOU?

- → Improve my on-time, lead time, quality, and cost performance
- → Gain more visibility and opportunities for new business
- → Collaborate with and learn from other suppliers who are doing the right things

Click on the one that best describes what's important to your business right now

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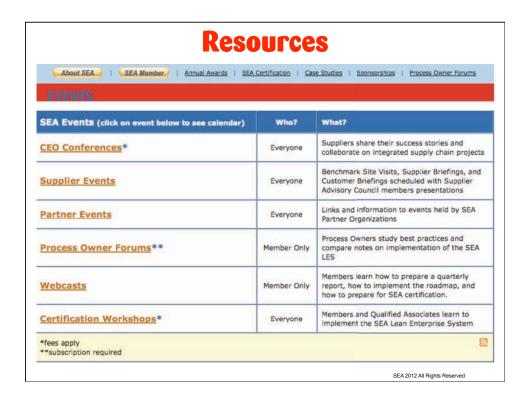












Lessons Learned

- Roles & Accountabilities
- → Leadership, Leadership
- Build the capabilities to lead and sustain improvement
- → Lower the Waterline Change Management

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→ SEA is a strategy - not a tactic

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