How To Support Your Supply Chain Operations with Lean Inbound Logistics





with Brad Bossence

Vice President, LeanCor Supply Chain Group Instructor, GT Supply Chain & Logistics Institute

Supply Chain Management Series

Lean Inbound Logistics

September 29-30, 2014 | Hyatt Regency (Savannah, GA) www.scl.gatech.edu/lil & www.scl.gatech.edu/SCMS

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& Systems Engineering

Your Presenter



Brad Bossence

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Career Focus Areas:

Entire career committed to third party logistics. Over 17 years of third party logistics experience with a specific focus in Japanese production system environments such as Toyota USA, Toyota Canada, Toyota Europe, Kubota, Yamaha, Suzuki, and Subaru.

Vice President, LeanCor Supply Chain Group:

LeanCor is a trusted supply chain partner that delivers operational improvement and measureable financial results. Unlike other 3PL providers, LeanCor offers a unique combination of training, consulting, and outsourced logistics services. "We *Teach*. We *Consult*. We *Do*."

Lean Supply Chain Instructor:

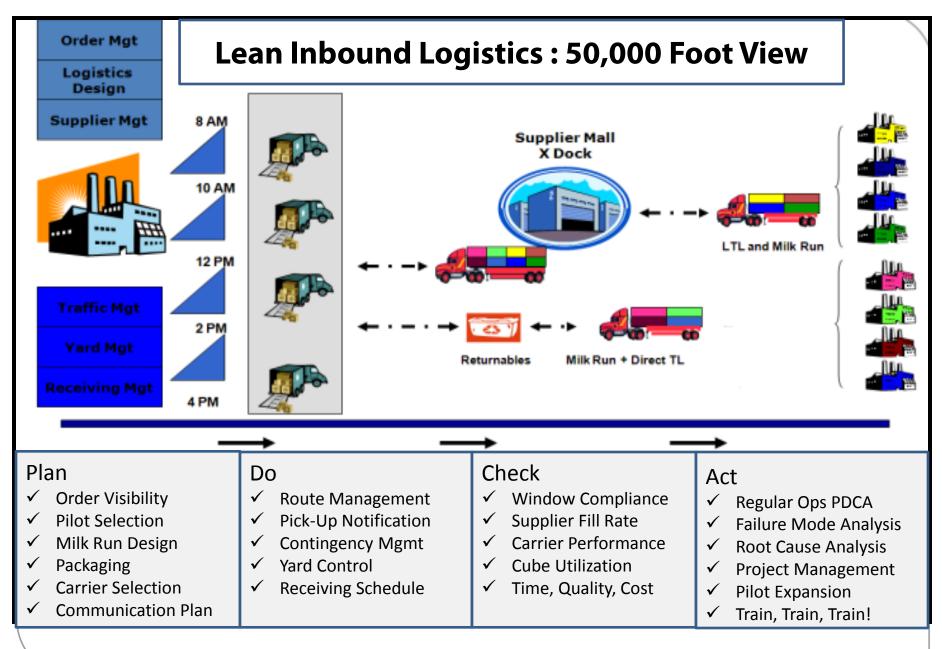
Georgia Tech Supply Chain and Logistics Institute

Cross-Industry Experience:

Automotive, Consumer Goods, Industrial Manufacturing, Retail, Food and Beverage





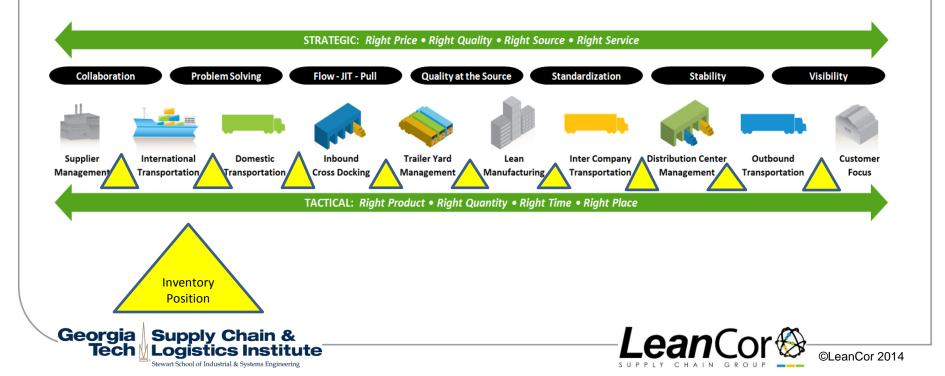






Inbound Logistics as Part of the Overall Supply Chain Strategy

- Total Cost of Fulfillment: Build models and lead and make decisions based on Total Cost of Fulfillment.
- Recognize that all decisions have unintended consequences and as leaders we must become systems thinkers.



Inbound Logistics & The Fulfillment Stream: Understanding the Challenges

- → 80% of supply chain activities are invisible to those accountable
- → Multiple suppliers, multiple customers, multiple third parties
- → High variability in material behavior, transportation modes
- High variability in lead time, supply and demand
- → High variability in supplier performance and capability
- The extended network is not always visible
- → Data are not always abundant





Lean vs Traditional Inbound Logistics

Definition A:

- Suppliers provide visibility to shipments
- Routes are designed and tendered daily
- Rate per mile is rigorously managed
- Cost per supplier is rigorously managed
- Incorrect shipment quantities are managed at delivery



Definition B:

- Shipping days are communicated to each supplier
- Network is designed by engineers and is adjusted based on plan vs. actual
- Total landed cost is rigorously managed
- Incorrect shipment quantities are managed at pick-up





Step 1: Make Demand Visible, Select Your Pilot

A TMS must easily integrate with our other systems

- Provide visibility to data in real-time for proactive problem solving
- ➔ Find value in your transportation
 - Opportunity to ensure **optimal routing** in terms of customer business rules and service (i.e. transportation cost)
 - Connect transportation to

manufacturing and inventory stratec



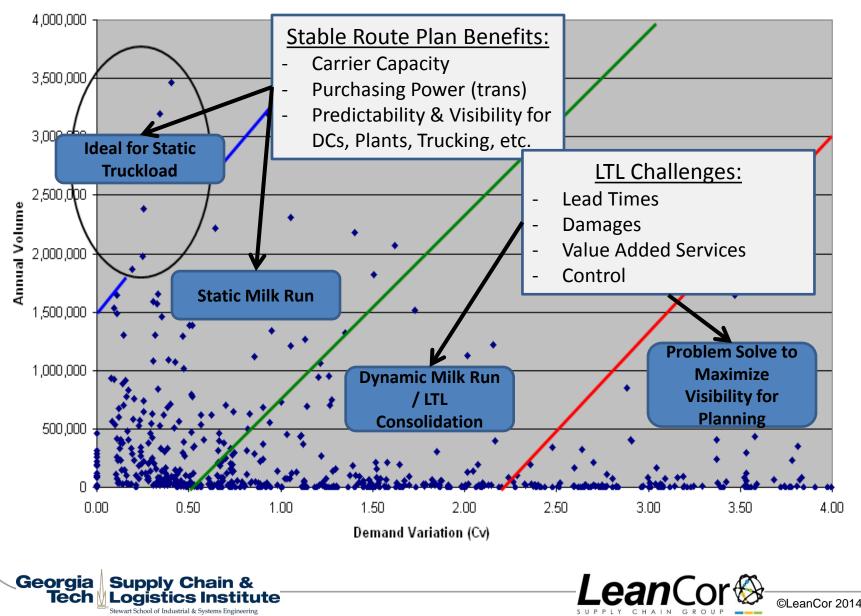


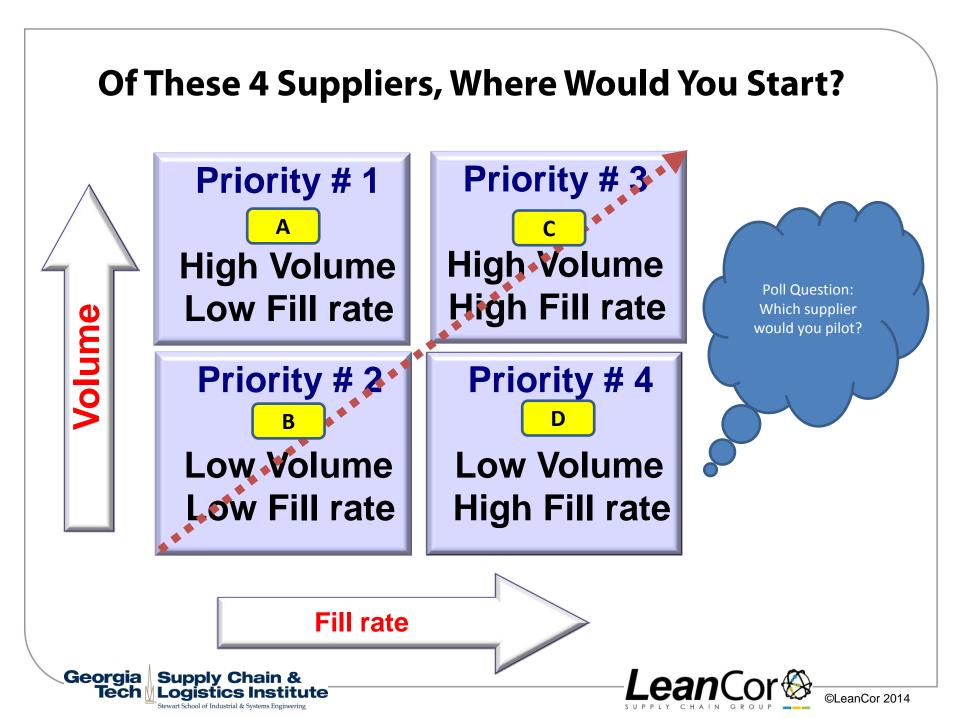


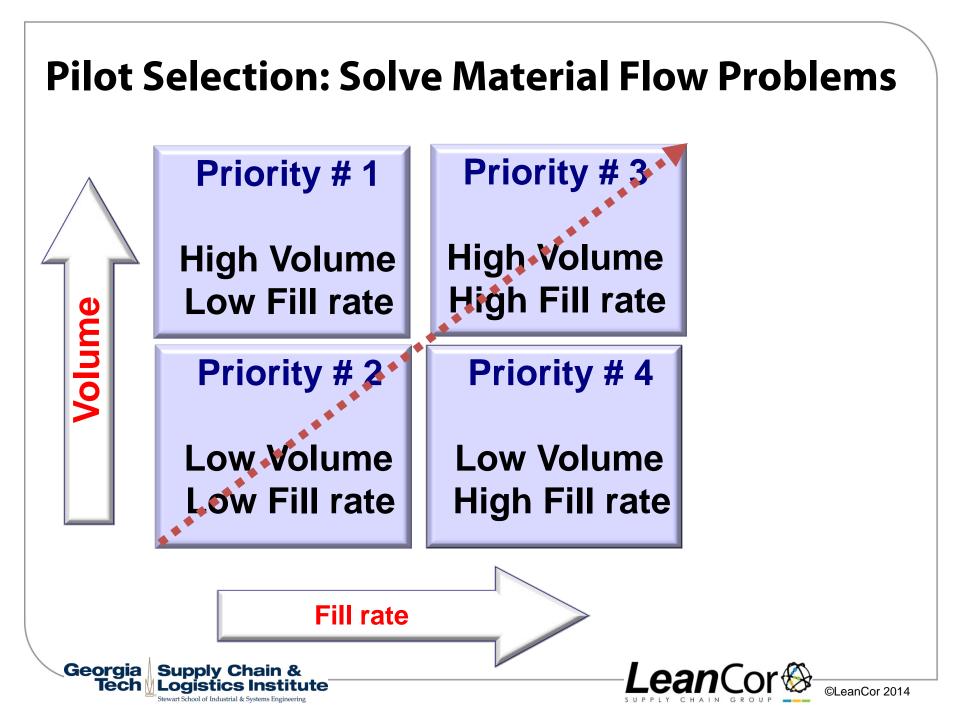




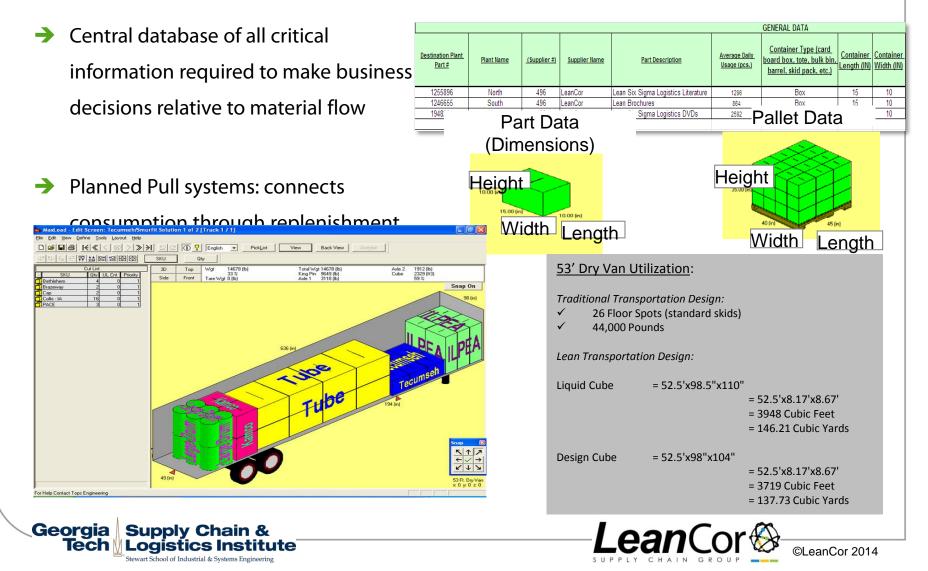
Pilot Selection: Find Stability







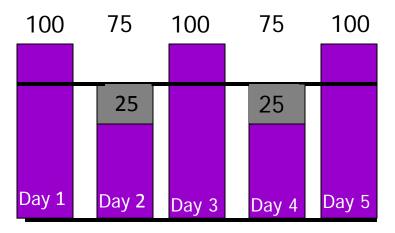
Step 2: Route Design & Plan For Every Part (PFEP)



Lean Logistics Concept 1 of 3: Lot Size

Customer Daily Requirements = x75





Order Lot Size = 50

 75
 75
 75
 75

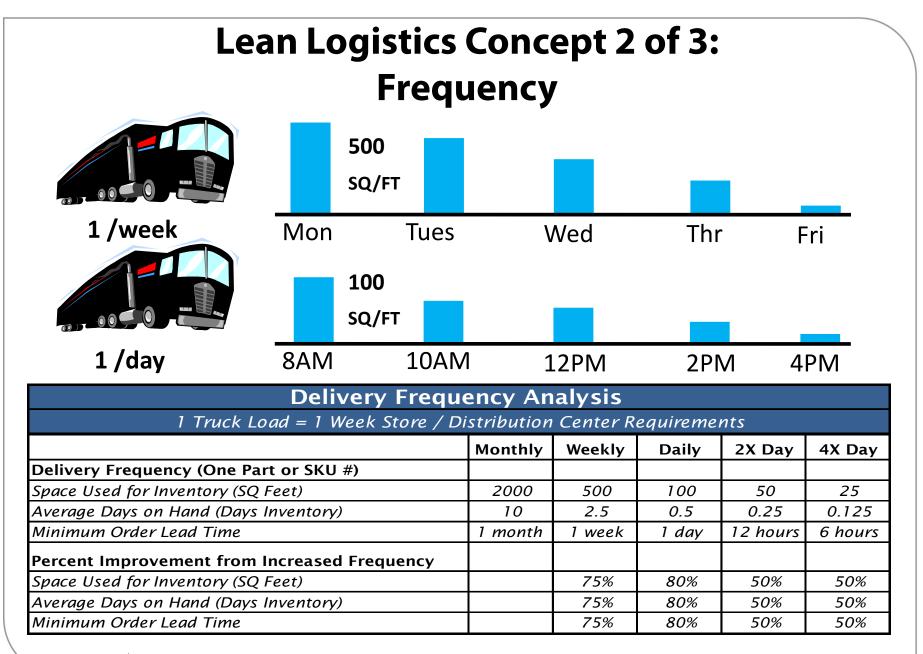
 Day 1
 Day 2
 Day 3
 Day 4
 Day 5

 Order Lot Size = 25

What Happens Here? What are the Implementation Challenges?

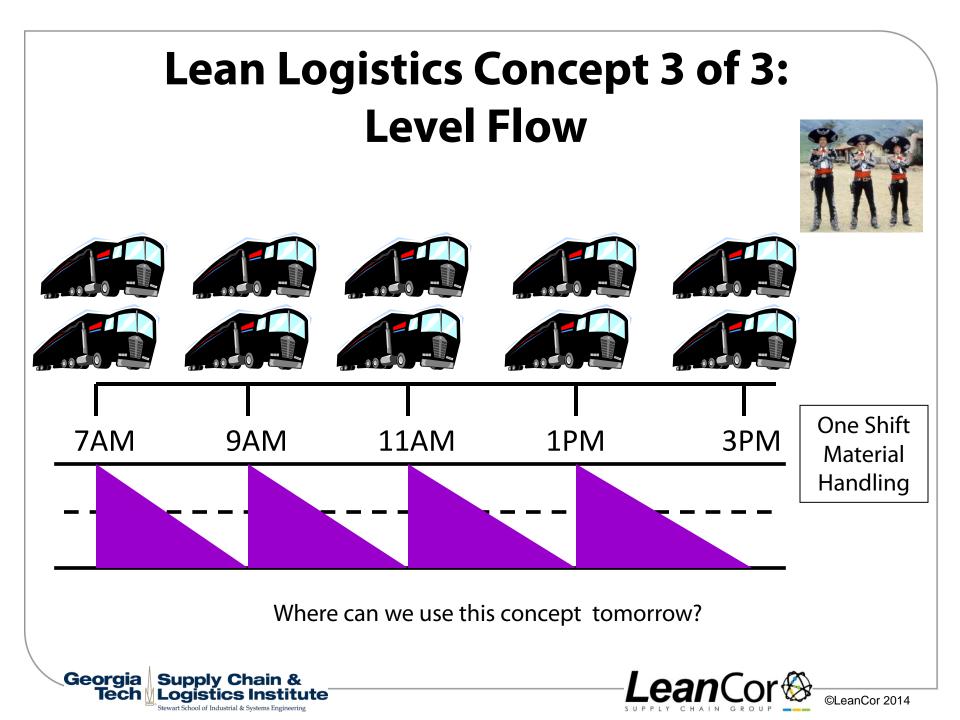


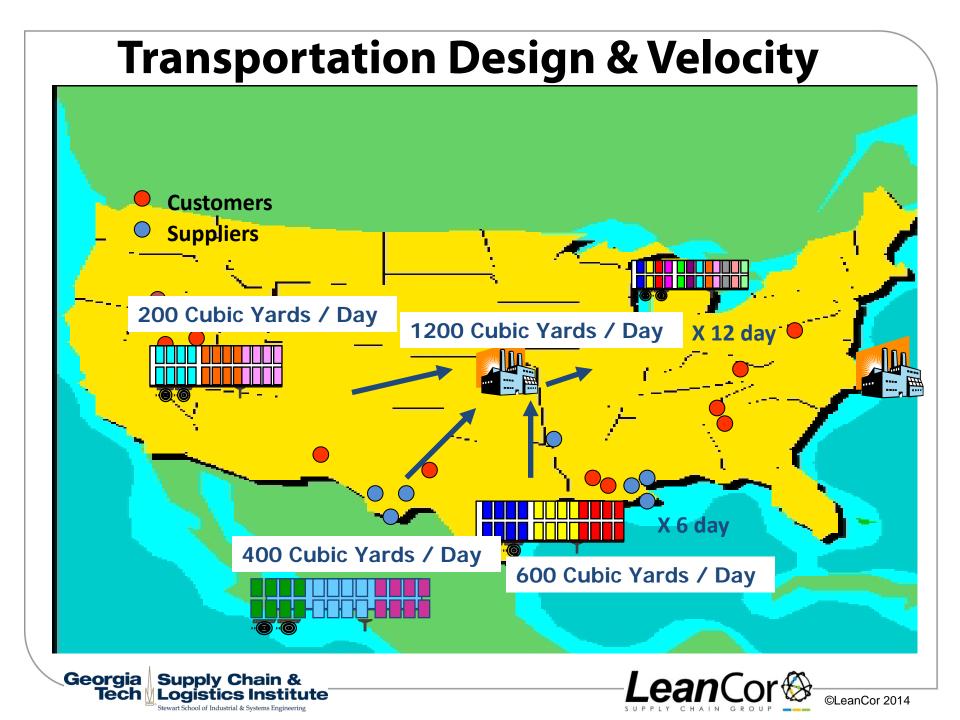












Step 3 and Beyond: PDCA

- ➔ Disciplined Route Management
- Disciplined PO / Supplier Management through real-time communication
- Disciplined Carrier Management Program
- Total Cost Management

Supply Chain &

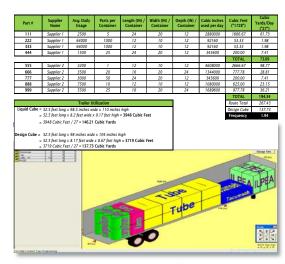
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Adjust



PDCA: Lean Logistics Measurement Systems

Purpose:

 Create metrics that add value to monitoring and improving processes.

Outcomes:

- Identify key metrics that can be collected to monitor performance and identify gaps.
- Establish key targets for metrics that maintain, promote, or make visible instability or stability.
- Define purpose for each metric, that purpose should drive action.



Examples:

On-Time Pickup and Delivery:

Cost impact: prevents overtime on loading/shipping docks, increases customer satisfaction and prevents line-down scenarios, stability in this metric leads to reduced inventory

Pickup/Delivery Frequency:

Cost impact: can lead to increased logistics cost, must be paired with decreases in inventory

Trailer Utilization:

Cost impact: full trucks lead to fewer trucks, reduces transportation cost





Lean Inbound Logistics: Continue Your Learning!

Webinar Attendees Will Receive a 20% Discount Code via Email

- September 29-30 | Georgia Tech Supply Chain and Logistics Institute (Atlanta, GA)
- → Learn how to:
 - Map a current inbound logistics network
 - Appreciate the distinct nature of the inbound logistics network as a link to suppliers and manufacturing facilities and part of the overall value chain
 - Calculate total logistics costs
 - Design a future state network based on lean principles
 - Learn techniques in transportation management, supplier management, and materials planning to achieve improved material flow balances and reduced overall costs
 - Learn the keys to strategic supplier management
 - Understand how lean guiding principles serve as the strategic pathway to lean inbound logistics
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- **To use discount code when registering,** please call Georgia Tech Professional Education at 404-385-3501
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Thank You!





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