The Annual William O. Lipinski Symposium On Transportation Policy

Crossing the Boundaries
to a 21st Century Transportation System

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November 2, 2009
Northwestern University
Evanston, IL
Logistics

The flow and storage of raw materials, finished goods, and related information from point-of-origin to point-of-consumption.
Supply Chain Management

A set of strategies, processes and technologies that link a company internally and externally to its suppliers, business partners, and customers.

Manages design, sourcing, planning, production and fulfillment of goods, services, and information across the full business network.

Council of Supply Chain Management Professionals
Evolution of Supply Chain Management

Traditional

- Business Strategy
- Strategy
- Planning
- Coordination
- Execution

Freight Transportation
- 3PL
- Warehousing

Contract Logistics

- Customer

- Lead Logistics Provider

- Customer

- Lead Logistics/4PL

- Decision Making + Relationship Management

- Other Business Process Services

- Value-Added Services

- Freight Transportation
- Warehousing

- Strategic Partner

- Customer + Partner

Supply Chain Strategy

Network Analysis + Design

Transportation

Engineering

Planning

Sourcing

Business Process Integration

TIMELINE

Adapted from Clarkston Consulting
Supply Chain Network

Supply Chain Network

Relationships
Processes
People
Network Analysis + Design

- SCM
- Transportation
- VAS
- Warehousing
- Engineering
- Planning
- Sourcing
- Business Process Integration
Network Design

• Mathematically assess trade-offs between warehousing, transportation and inventory
• Define network alternatives
• Identify scenarios
• Enable customers to respond to change

Clarkston Consulting
Best 4-Site Model

Bakersfield, CA
Chicago, IL
Meridian, MS
Lancaster, PA
Best 6-Site Model

Tacoma, WA
Pasadena, CA
Dallas, TX
Macon, GA
Chicago, IL
Summit, NJ
Best 9-Site Model

- Oakland, CA
- Denver, CO
- Chicago, IL
- Gainesville, GA
- Lakeland, FL
- Summit, NJ
- Alhambra, CA
- Tacoma, WA
- Dallas, TX
America 2050: An Infrastructure Vision for 21st Century America
Commonalities within each Megaregion

- Environmental systems
- Infrastructure systems
- Economic linkages
- Business and manufacturing chains
- Travel patterns
- Settlement patterns and land use
- Shared culture and history
Strengths of Great Lakes Region

- 97 Million People (40M in major metros)
- 32.5% Gross State Product
- 30% U.S. Exports
- 300 Companies in Fortune 1000
- Top educational and research institutions
America 2050: An Infrastructure Vision for 21st Century America
Think Plan & Act Across Boundaries
Think
Plan
& Act
Across
Boundaries
Think Plan & Act Across Boundaries
Think
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Think Plan & Act Across Boundaries
MPC: Investments in our Future