제조업의 물류혁신 방안 및 사례

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SESSION

H-3 제조업의 물류혁신 방안 및 사례

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Agenda

- New trends in Logistics
- Logistics Strategy for the value to Business
- Effective Transportation Management
- Conclusion

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Logistics as a Value Creator

- Logistics has become a value creation vehicle that can earn competitive advantage, increase profitability and facilitate improved margin and growth rates
- Companies are reducing inventories to free up working capital, expanding globally to increase revenue potential, and reducing costs to increase shareholder value.

Old Paradigm

"Cost Focus"

- Cost Center
- · Rate & Negotiation
- Load Building /Routing /Freight Payments
- · Functional Optimization

New Thinking

"Service Focus"

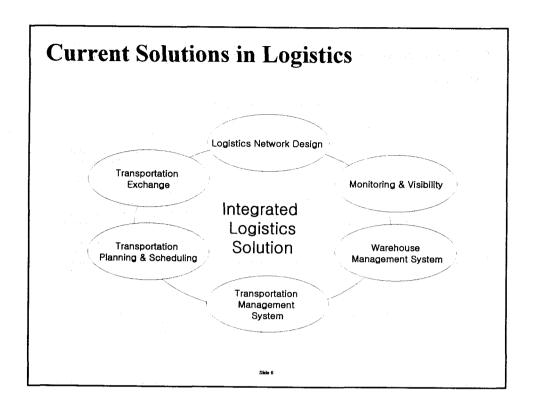
- · Value Creator
- Customer Service
- · Logistics Visibility
- Supply Chain Optimization

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Current Trends & Issues

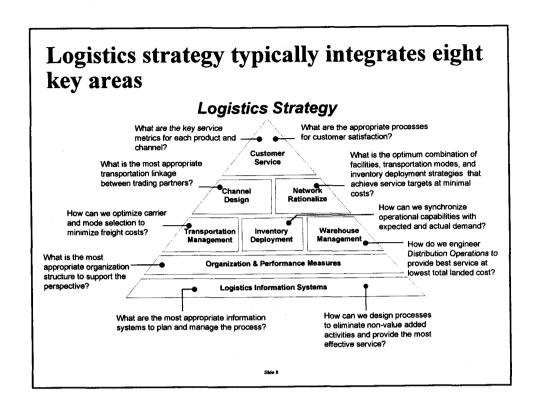
- Rapid growth in B2C Package deliveries
- Higher customer expectations: where is my shipment, when will it ship, and can I change my order?
- High, on-time order fill rate expectations (pressure on inventory levels)
- Products increasingly customized/personalized (both B2B and B2C)
- Collaborative planning between shippers, carriers, brokers, and customers
- Rapid emergence and globalization of new sales and distribution channels
- Reverse logistics (handling of returns)
- Outsourcing (growing use of third party logistics)
- Pipeline visibility (using Web technology to manage inbound and outbound shipments)
- Cost Reduction Pressure

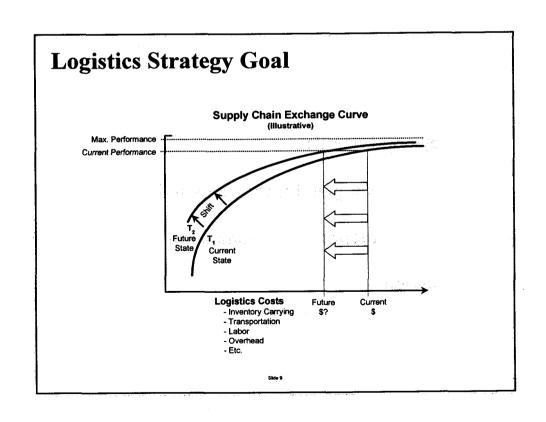
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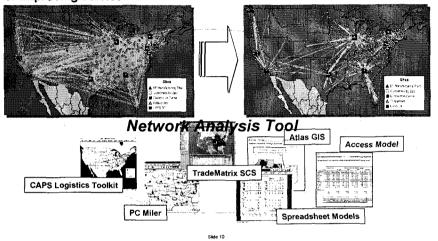
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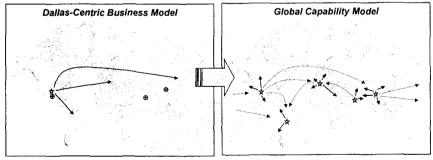
Network Optimization

Analyzing the cost-service tradeoff among logistics network strategy alternatives is critical in seeking to rationalize facilities while maintaining or improving service

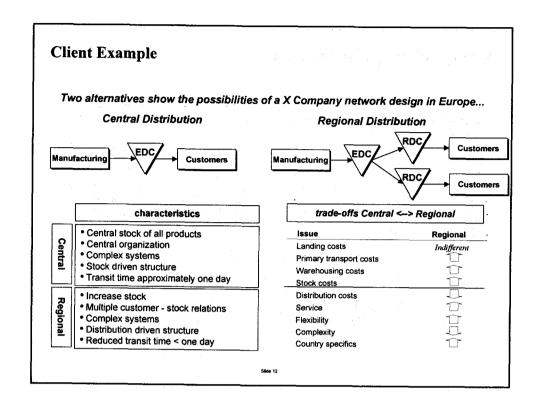


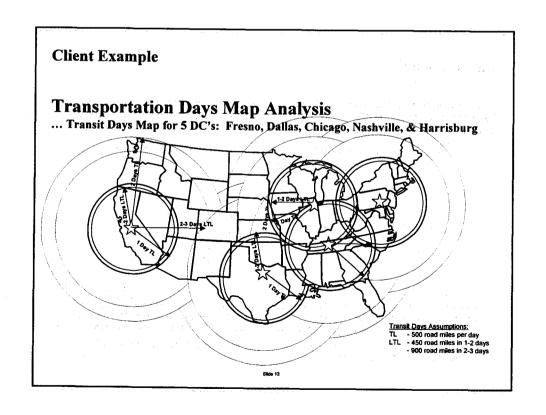
Client Example

Industry sector economics, coupled with a shift in customer requirements, are driving X Company away from a Dallas-Centric Business model to a global business model with regional delivery capabilities.



- As customers' requirements trend towards lower cost and greater responsiveness and service, X
 Company must create regional infra-structures that can source, manufacture, distribute, service and
 manage reverse logistics intra- or inter-regionally... all with a minimum investment of capital.
- In order to maximize shareholder value and customer services, a global approach to resource management must be undertaken.





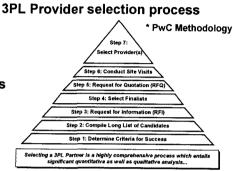
Logistics Outsourcing Strategy

The important principle of B2B e-business evolution is that the trend will evolve from optimization of an individual business to optimization of a network of businesses.

High Customer Satisfaction With Minimum Cost

Focus On Core Business

- Logistics Efficiency
- · Lowest total Logistics Cost
- · Providing Value-Adding Services
- Flexibility
- Risk Mitigation



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Outsourcing Activity & Function Foreign Trade & Warehouse Transportation **Logistics Planning** Regulatory Management Management Compliance All services are carried out by one or more third-party logistics providers. Outsourced Logistics require integration of process activities. E.g. services like labeling or packaging can be outsourced. Quality espection Planning & Optimization Status Receive Goods Order Processing Optimize Storage Picking Store Goods Packaging Enterprise Logistical Check Goods Production Management Activities Physical Inventor Confirm Shipping Value-Added Organize Shipments Organize Shipments Carrier Information

Client Example

The benefits at Year 5 is an estimated \$17 million to \$34 million reduction in logistics related costs...



The cost savings through the integration of a 3PL Service Provider

Function	Year1	Year2	Year3	Year4	Year5
Warehouse Operations Management	7.5 %	6.0 %	3.0 %	1.8 %	1.5 %
Carrier Selection & Rate Negotiation	7.5 %	6.0 %	3.0 %	1.8 %	1.5 %
Shipment Planning	4.5 %	3.8 %	1.9 %	1.1 %	1.1 %
Packaging	6.8 %	6.8 %	3.4 %	2.0 %	1.9 %

source: the Journal of Business Logistics

Our experience has shown that while these numbers are aggressive, they can be achieved if the outsource contract is established correctly.

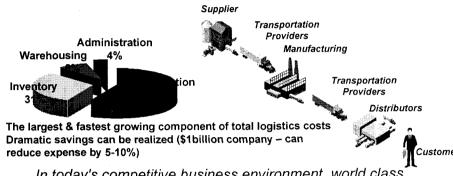
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Transportation Management

Transportation is the glue that holds the logistics network together and must always be aware of the transportation costs and characteristics



In today's competitive business environment, world class companies are making significant investments in Transportation improvement programs.

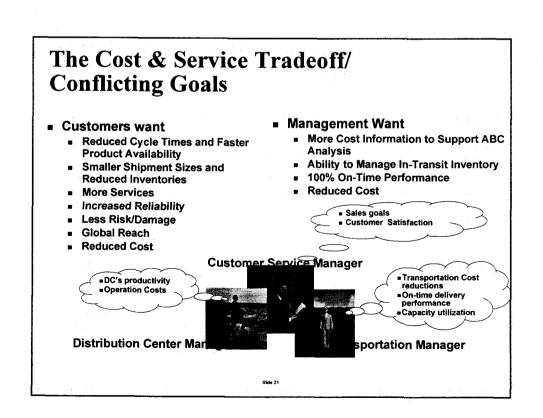
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Transportation impacts Most Areas Within the Supply Chain

PLANNING	PROCUREMENT	MANUFACTURING	DISTRIBUTION	CUSTOMER
Network &	Landed Costs	Interplant	Load Plans	Available to
Asset	.9	Movements		Deliver
Rationalization	Inbound In-transit		Pick Lists	
· · · · · · · · · · · · · · · · · · ·	Inventory	JIT and Other		On Time
Lead Times	Management	Specialized	Shipping .	Monitor
Lead Times		Services	Documentation	
Vendor	Reduced Raw		Preparation	QA
Sourcing	Material and			Programs
Sourcing	WIP Inventories		Dock Scheduling	% 7 \$
Economic				Accurate
Order Sizes			Outbound	Cost
Order Sizes			Shapment	
			Management	ASN
			Mode/Carmer	In-transit
			Selection	Track &
		-	7.50	Trace
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Transportation Management Process Manage the full lifecycle of the transportation process - from order management through customer service and financial settlement Planning Execution **Post Delivery Process** Claims Management Carrier Assignme Orders reight Bill Tenderi Load Planning Tracking (Certify Loads) Dispatch & Monitoring Financial Operational Service



How Can Savings be Generated?

■ Tactical Opportunities

- Understand current rates and leverage lower carriers that provide a consistent level of service
- Ensure that your rates are under contract and that they are competitively priced
- Ensure that you have a core carrier program
- Control your inbound freight
- Monitor carrier performance
- Eliminate your freight bill audit function

Strategic Opportunities

- Investigate the use of automated load planning tools
- Integrate freight rates and transit times with order entry
- Provide a transportation resource to the procurement function
- Review the business case of maintaining your private fleet
- Identify opportunities where you can work with your carriers to reduce their "cost to serve" you

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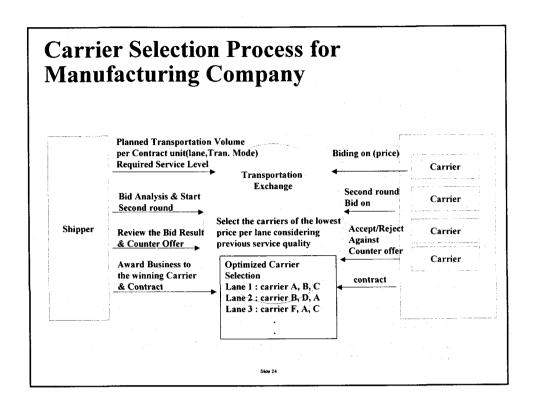
Categorize Transportation Management

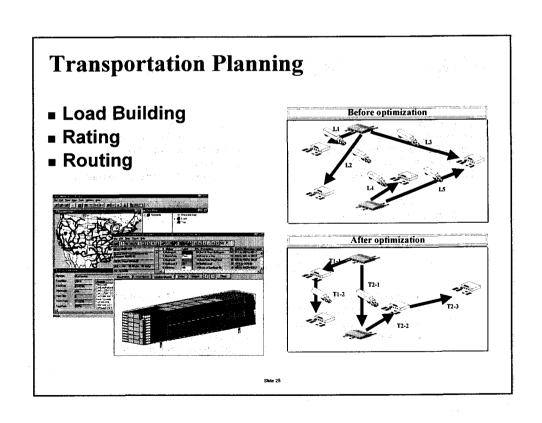
- Carrier Bidding using Transportation Exchange
- Cost-Effective Carrier/Service Combination Determination
- Electronic Contract Process
 - Carrier
 Negotiation & Contract
- Load Building (Shipment Consolidation)
- Route Determination
- Rating
- Optimal Carrier/Service Selection

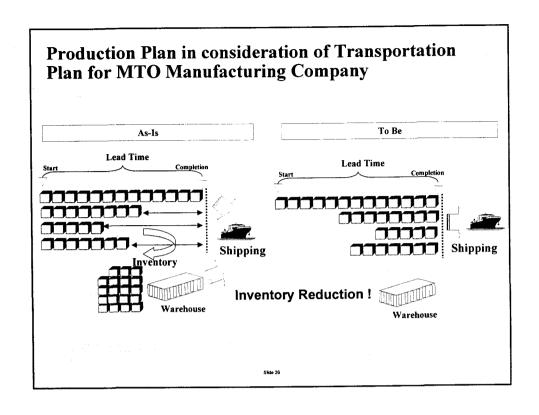
Transportation Planning

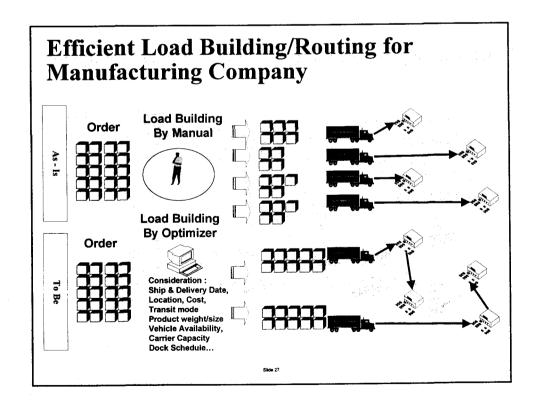
Transportation Execution

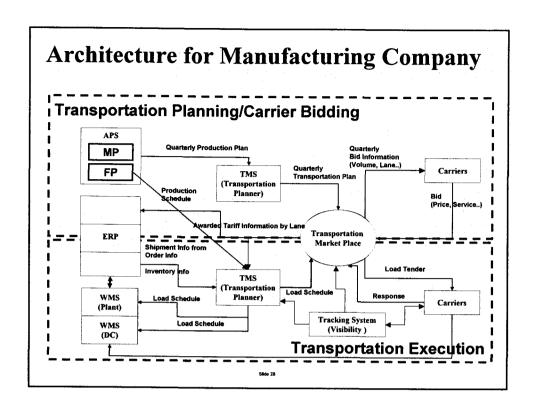
- Load Tendering
- Freight Cost Settlement
- Shipment Documentation
- Track & Trace
- Alert/Event Management
- Carrier management
- Fleet Management
- Analysis/Reporting (Strategic/Operational)

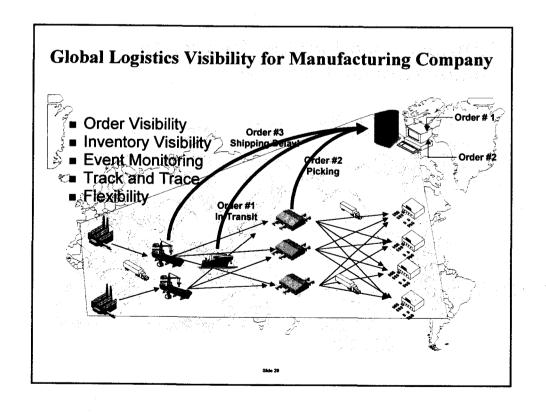


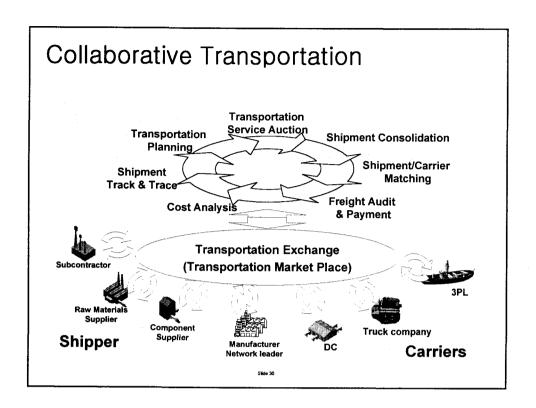












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Conclusion

- Logistics is no longer simply a method of moving goods but rather one of the critical elements required to effectively manage and operate the supply chain.
- Companies taking advantages of improvement opportunities will undoubtedly enjoy both cost savings and customer service improvements.
- Process Improvement is more important than system implementation
- By managing the "Shipper's Dilemma", exploring all transportation options, and investing in planning and execution technologies, there can be only one result:

 Effective transportation management processes provide a strategic and competitive weapon to your company!!

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