

Supply Chain Resource Cooperative scrc.ncsu.edu, scm.ncsu.edu

"An Industry-University Partnership for Supply Chain Research and Education"

North Carolina Seafood Marketing Workshop

February 3, 2009

The Seafood Global Supply Chain

Rob Handfield, PhD

Bank of America University Distinguished Professor of Supply Chain Management

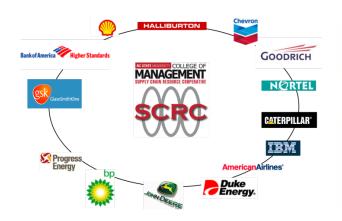
North Carolina State University

Co-Director, Supply Chain Resource Cooperative

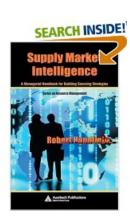
Consulting Editor, Journal of Operations Management



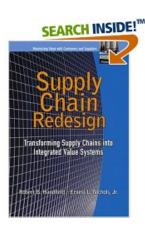
Introductions...











Rob Handfield, PhD

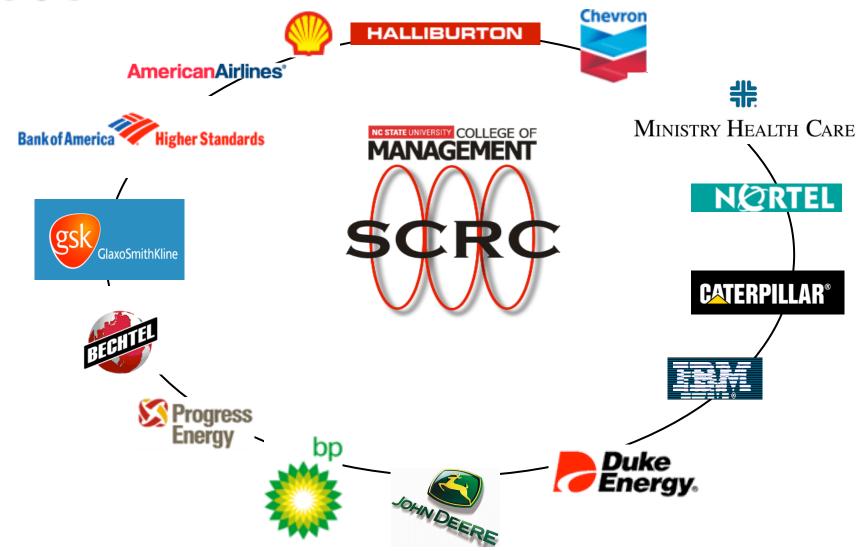
- Bank of America University Distinguished Professor of Supply Chain Management, NC State University
- Director, Supply Chain Resource Cooperative – top 3 MBA SCM programs in the US
- Adjunct Professor, Manchester Business School

Research and consulting supply risk projects with different industries including:

- · Baxter BioScience
- Bechtel
- · Boston Scientific
- BP
- Cardinal Health
- Chevron
- ConocoPhillips
- Freightliner
- General Motors
- GlaxoSmithKline
- Home Depot
- Halliburton
- Lyondell
- Quintiles
- Shell Lubricants



Partner Companies



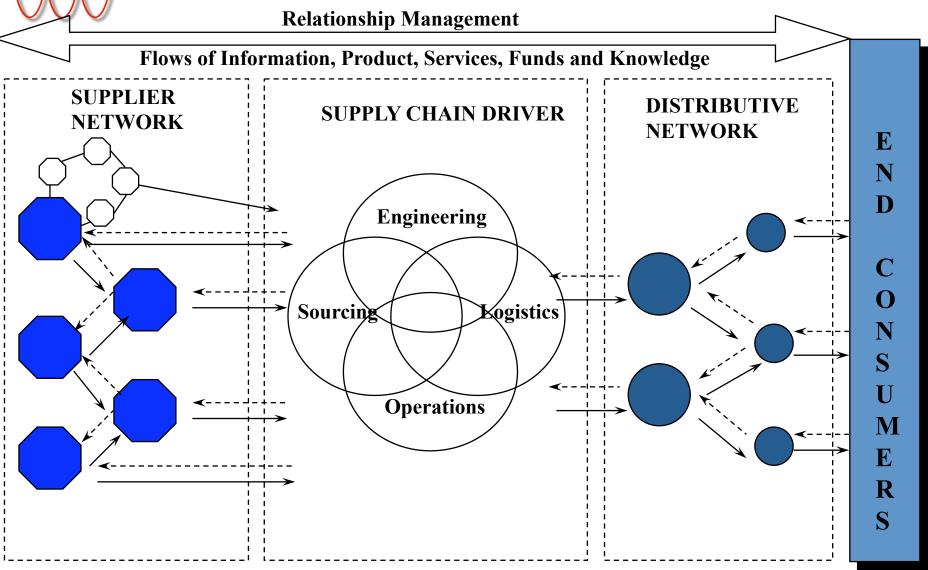


Agenda

- What is Supply Chain Management?
- Impact of the Economic Crisis on the Supply Chain
- What Does the Seafood Supply Chain Look Like?
- Challenges in this Environment
- Opportunities for NC Seafood Producers
- Final Thoughts and Q & A

MANAGEMENT SCREEN

The Integrated Supply Chain



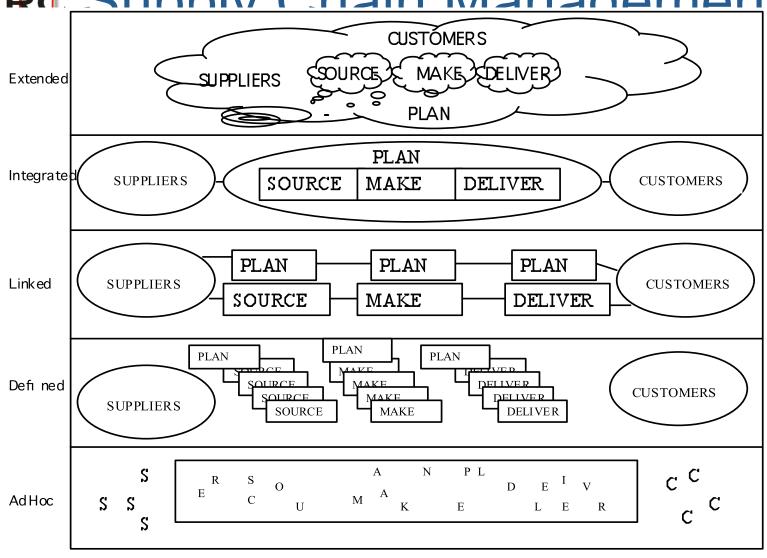
Resource Base (Capacity, Information, Core Competencies, Financial)

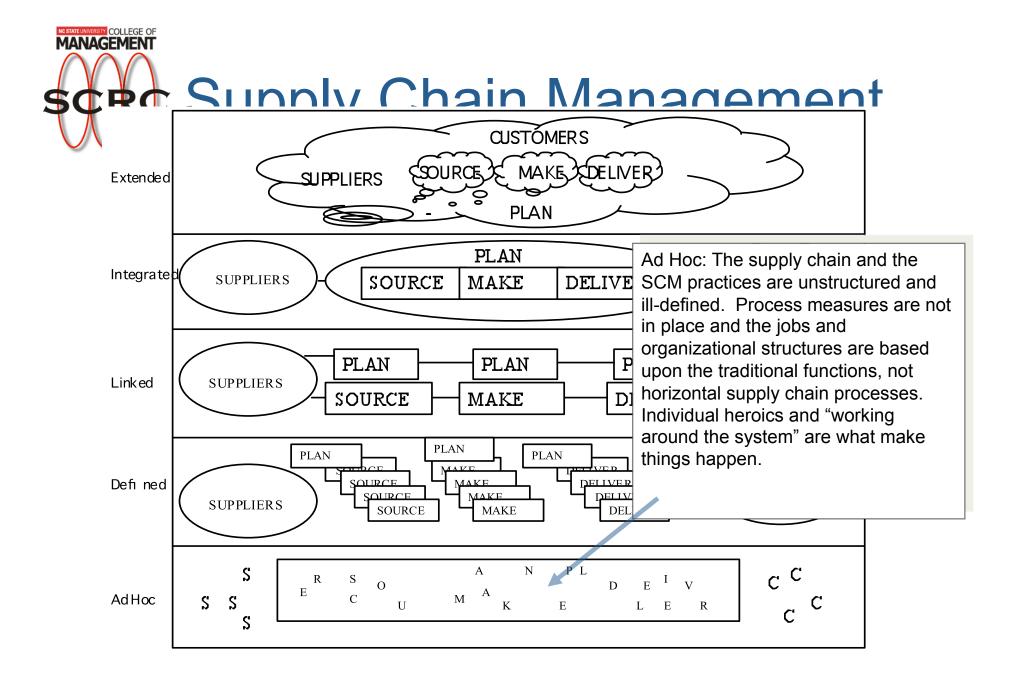
Supply Chain Management Definition

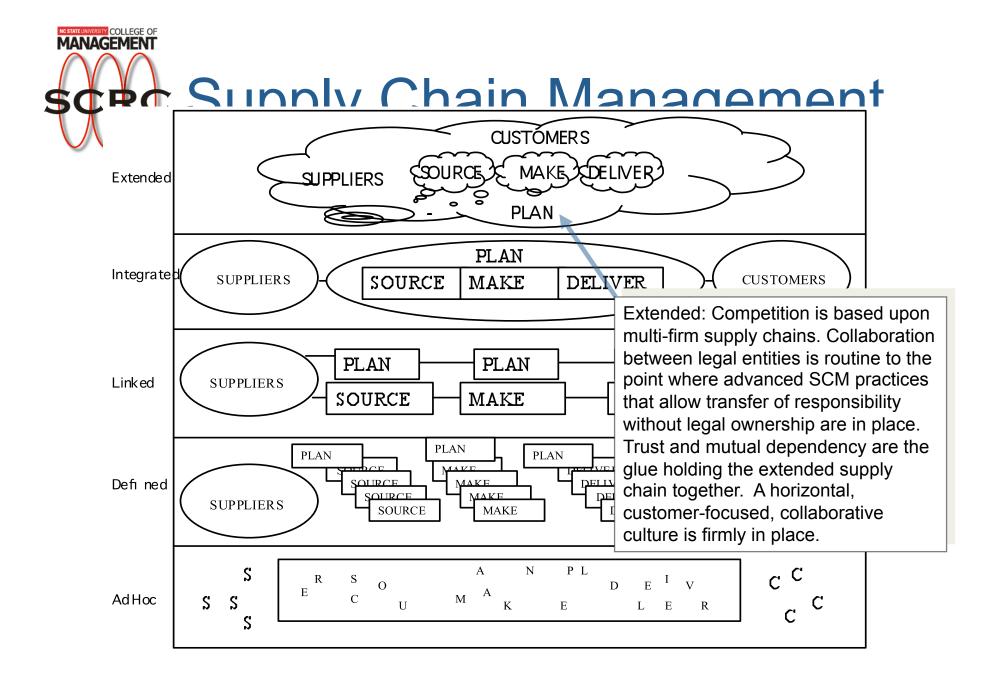
Supply chain management (SCM) is the integration and management of order fulfillment processes, organizations, and activities through cooperative organizational relationships, effective business processes, and high levels of information sharing to create high-performing Value Systems that provide companies, its customers and its suppliers a sustainable competitive advantage.

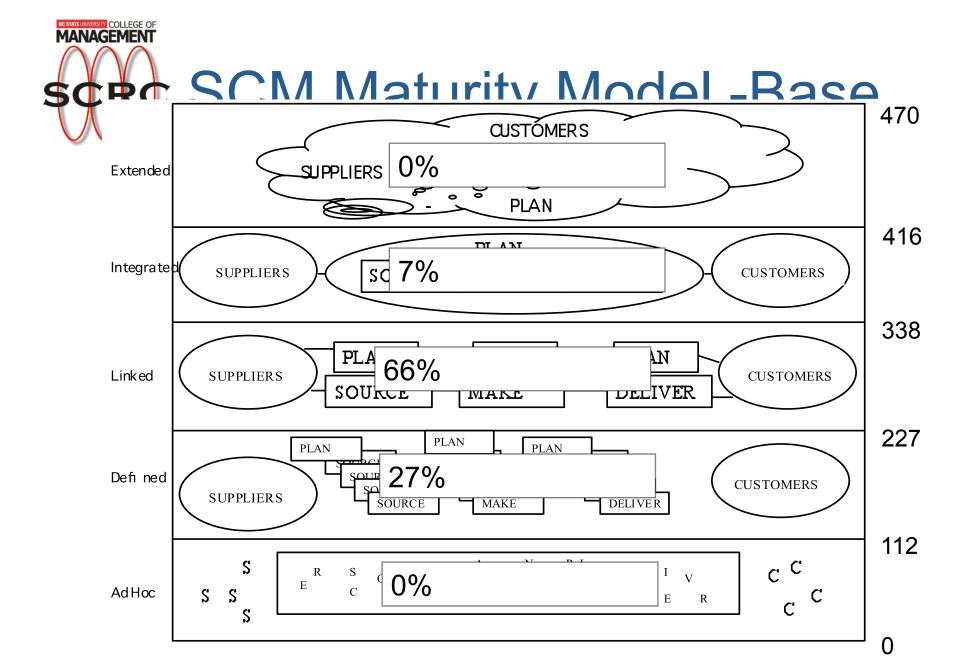


Sunnly Chain Management



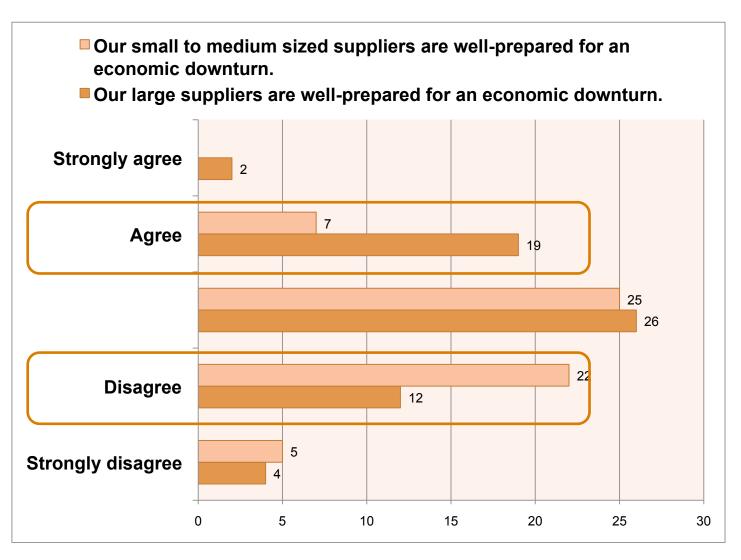








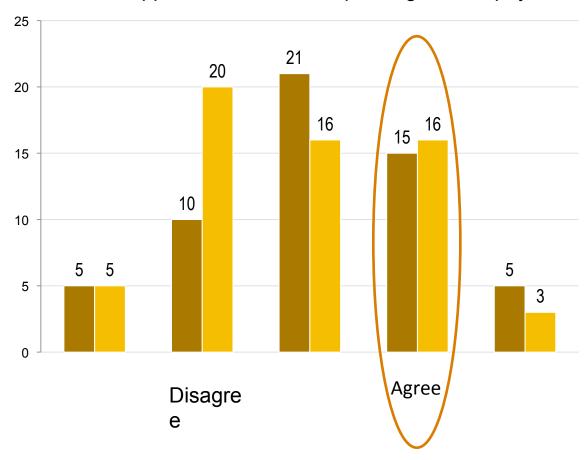
Small to medium sized suppliers are not as well prepared for the downturn compared to large suppliers.





Both supply side and customer side partners face a crunch, and are requesting improved payment terms

- We have had customers come to us requesting improved payment terms.
- We have had suppliers come to us requesting shorter payment terms.

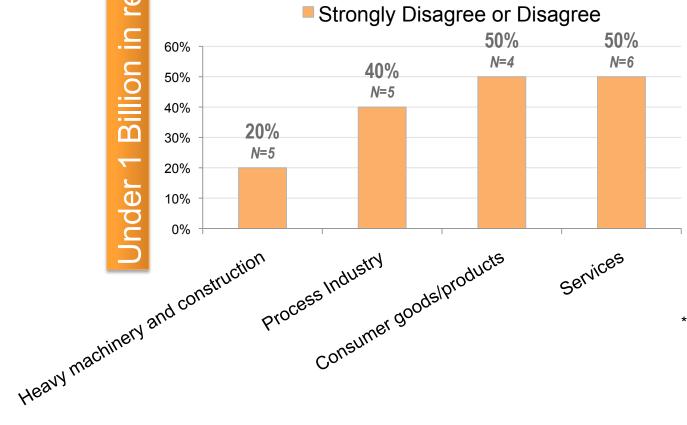




Small Consumer Goods and Service companies find their large suppliers at risk

Under 1 Billion in revenues

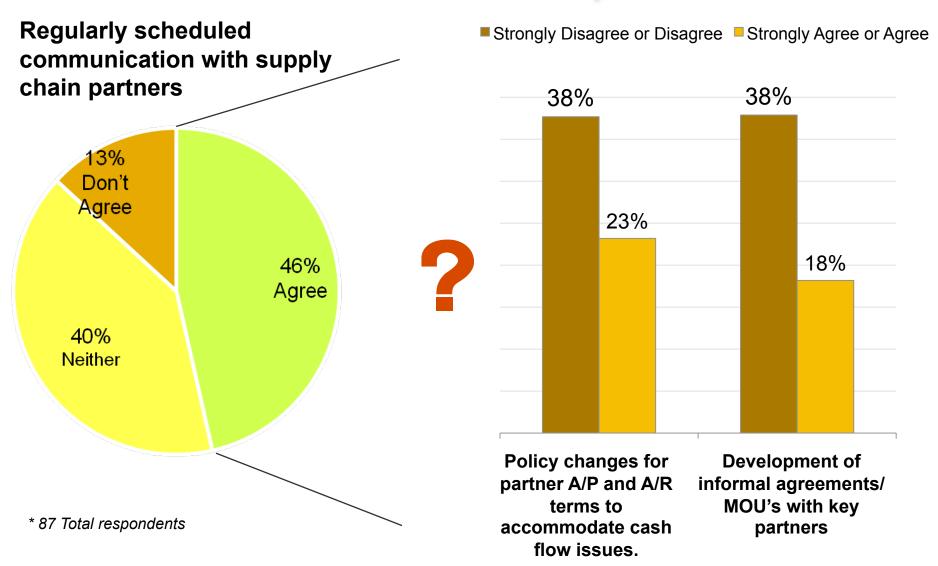
Our large suppliers are well-prepared for an economic downturn



* 87 Total respondents

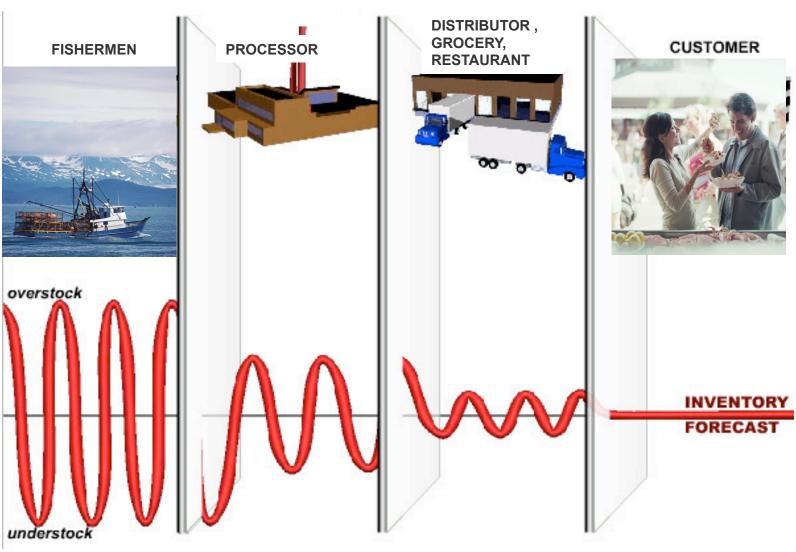
On going regular communication with supply chain partners but no significant evidence of policy changes or development of informal agreements for communicating commitment to relationships

MANAGEMENT



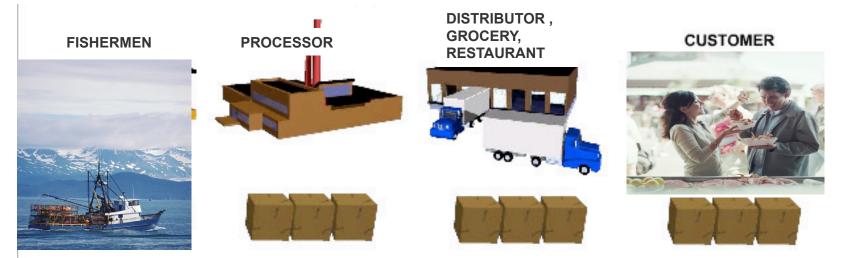


Supply and Demand Issues in the Seafood Supply Chain





Benefits of Collaboration



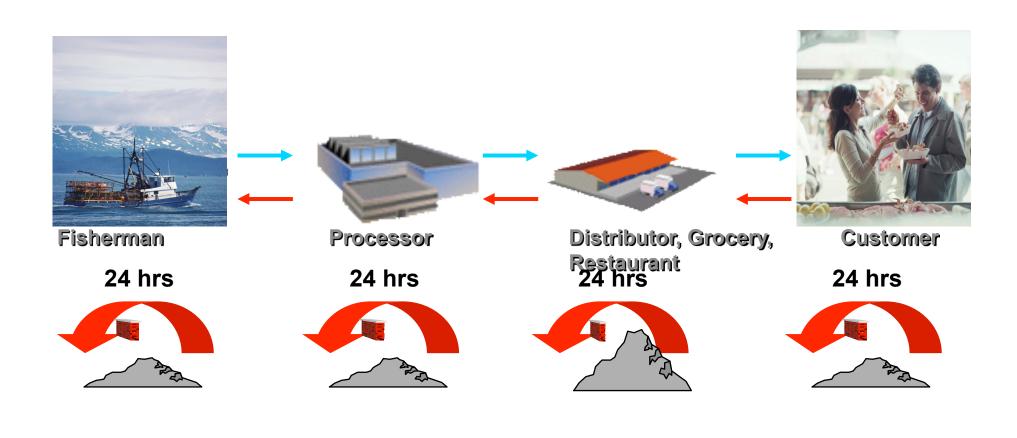
FORECAST



Information Flow

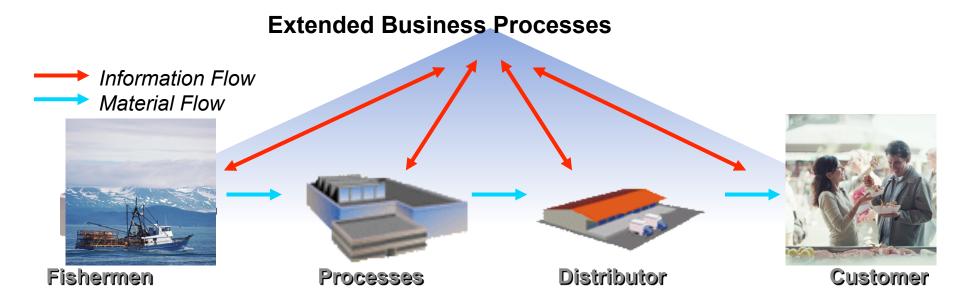
Material Flow

Traditional Communication Patterns





In a Perfect World....



- Real time data
- Tighter integration of disparate systems
- Manage business processes by exception
- Alert management process

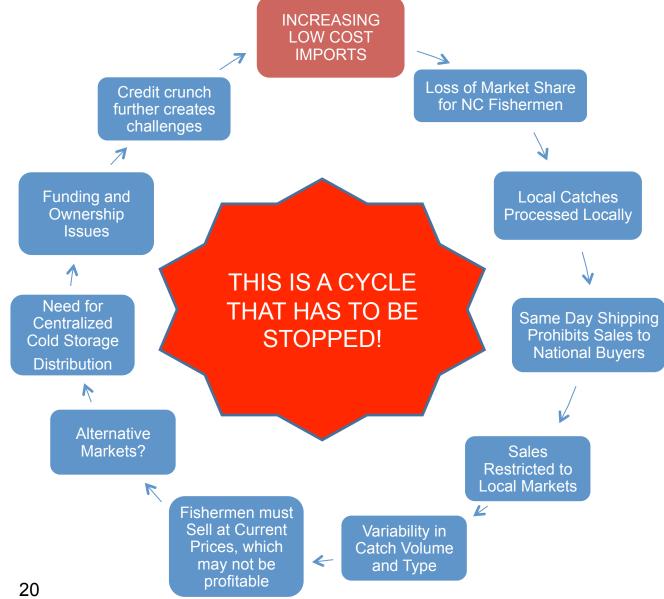


Discussion: Globalization of the Seafood Industry

- In 3 years, can US seafood continue to compete on the basis of low cost?
- If not what is the core advantage they have in the market?
- What are the implications of this decision?

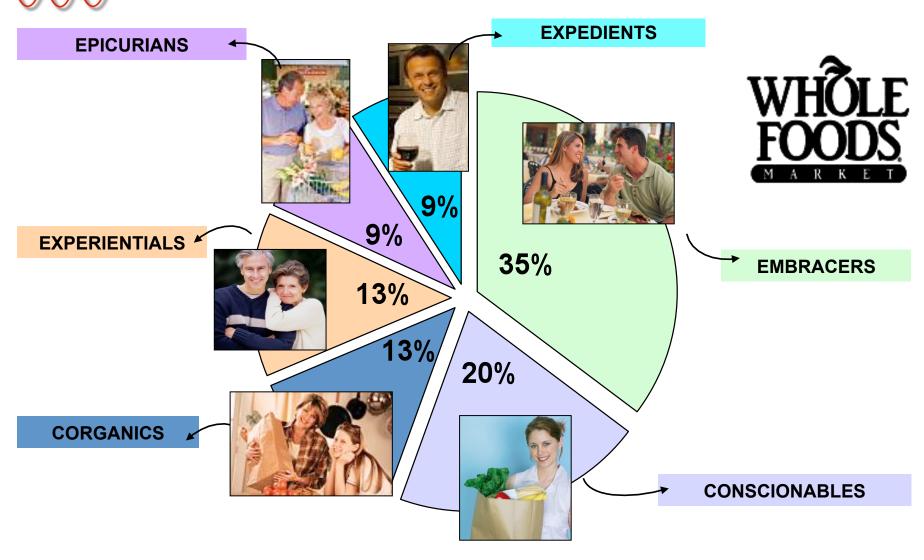








(% of all WFM Shoppers)





Summary Descriptors

EMBRACERS	35%	Represents the "typical" WFM Shopper. Holds core values on health, importance of natural/organic, LOHAS issues <u>and</u> finds specialty/gourmet products and food experiences important. Been shopping WFM the longest and buys many different products and categories.
CONSCIONABLES	20%	Embodies the core values and behaviors of the original WFM Shopper. Strong focus on organics and LOHAS issues. WFM's social/environmental consciousness are a driving force. Frequent shoppers who spend the largest proportion of monthly grocery bill at WFM. Skews younger, female, less affluent, more liberal minded.
CORGANICS	13%	Strong organic orientation and shop WFM because they execute the organic mindset. Believers in the importance of healthy foods, and concerned about what is in food they eat and how it's made. Frequent shoppers and big spenders. Skews female, households with kids.
EXPERIENTIALS	13%	All about the experience. This segment strives for unique and fun food experiences. They primarily buy produce and specialty/gourmet items; not particularly organic oriented. They are infrequent shoppers who aren't heavy spenders. Profile is older, more traditional, with higher income.
EXPEDIENTS	9%	Convenience is key. They are not drawn to WFM because of its organic orientation, values, or specific product offerings, but simply because of its proximity. Few "regular" purchases; generally buy produce, prepared foods and a myriad of other items. Tend to be higher income males.
EPICURIANS	9%	Driven to WFM primarily because of the specialty/gourmet offerings and are not particularly organic or LOHAS-minded. Infrequent shoppers who spend less compared to other segments. Are older, highly educated, retired.



How does Whole Foods Market view their supply base?

National Suppliers Standard product National distribution Economies of scale High market knowledge Data/assortment Increasing category management **National** Regional Standardization **Suppliers** Regional producers Scaled to regional distribution Economies suited to regional distribution Differentiated regional Store-level **Suppliers** Local producers Differentiated product Local need or requirement Meets WFM Quality

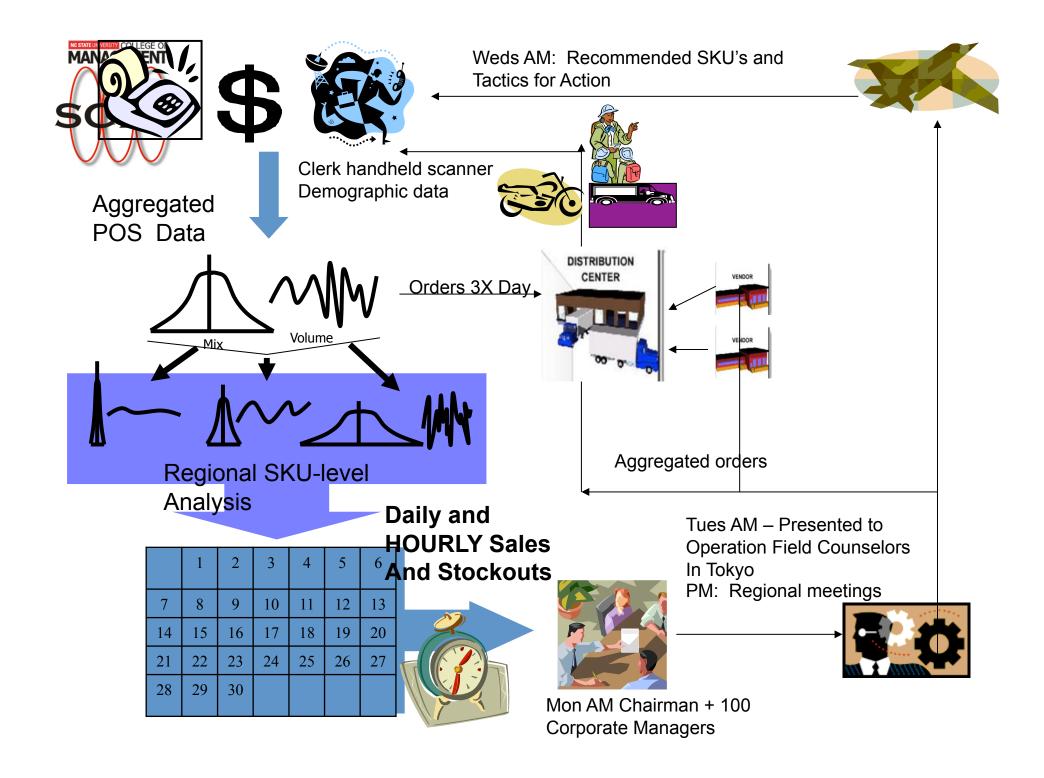


Size / Revenue \$



Cast Study - Seven Eleven Japan

- 8200 stores Growing 500 per year
- Average store size = 1200 square feet
- 3000 SKU's per store most with two week sales peak (50% new products every year)
- High cycle time merchandise
 - Drinks, noodles, bread, snacks (33%)
 - Fast foot (rice balls, lunches, burgers 32%)
 - Fresh food (milk and dairy) 12%
 - Nonfood (magazines, ladies stockings, batteries) 25%
- Strategy:
 - The Sharp Eye (Data Collection)
 - The Smart Brain (Conversion into Meaningful Data)
 - The Fast Arm (Agile Logistics)





Seven Eleven Japan - Results

- Daily sales/ store increased from \$3300 (1977) - \$6200 (2000)
- Average inventory turn time increased from 25.5 to 8.4 days
- Average gross margin increased from 24 to 30%
- A 100 yen investment in SEJ stock in 1980 would have been worth 300,000 yen in 2000.



One Option: A Distribution Buffer to Flash-Freeze and Store Seafood

Owning and operating a streamlined, compliant cold-chain warehousing and distribution center is a **COMPLEX** undertaking.





Issues to Consider

- Key Customer Accounts
- Transportation and Utilities
- Business Environment
- Facility Validation and Maintenance
- Project Management and Regulatory
- Qualified Employees
- Technology and Regulation
- •Insource or Outsource?
- Partnering Opportunities?



Questions to Consider Today

- How well do we understand our key customer requirements?
 - Packaging and forecasts?
 - Channels to ensure information is current?
- What are the types of information sharing that would most benefit the seafood community?
 - Customer preferences?
 - Forecasted volumes?
 - Pricing trends?
 - Premium markets?
- Are there opportunities here to solidify our position via new forms of relationships and open collaboration for the community?
- What do we believe the situation will look like in two years?
- How are we motivating people to act urgently?