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des Opérations de la Chaîne Logistique



22^{ème} congrès Fapics

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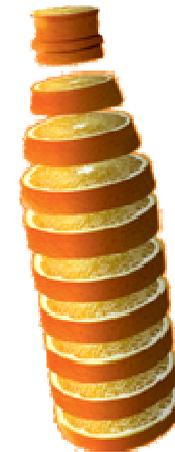


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Nos réseaux internationaux :



THE FRESH CONNECTION
the ultimate value chain experience



FAPICS Association Française de Management des Opérations de la Chaîne Logistique



SCC and SCOR Overview

Supply Chain Council
Executive Presentation

12-07-2013 Paris



If You Want to Understand a Business

Follow the Money!

Supply Chain is Dominant Company Cost Driver

- In 2007, US business logistics costs rose to an all time high of \$1.4 trillion (10.1% of US nominal Gross Domestic Product)³
- Supply-chain generally accounts for between **60% and 90% of all company costs**¹
- A **2% improvement** in process efficiency for supply-chain processes has **3000% - 5000% the impact** of a 2% improvement in efficiency for... IT... HR... Finance¹... Sales...

Fortune-10 Company Supply-Chain Cost as % of Total Costs²

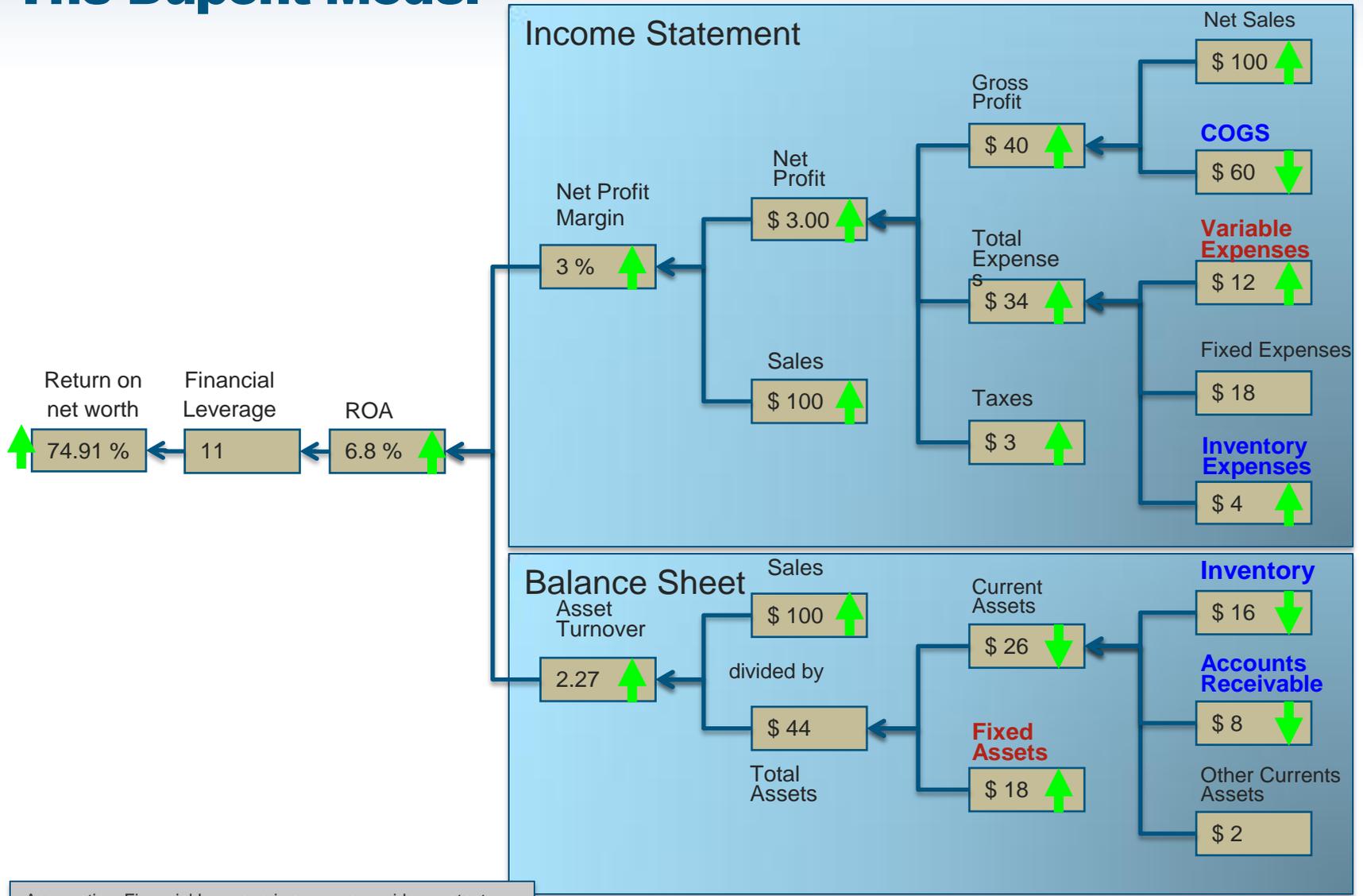
GM	94%
Ford	93%
Conoco	90%
Wal-Mart	90%
Chevron	88%
IBM	77%
Exxon	75%
GE	63%
Citi ¹	0%
AIG ¹	0%

¹ Exclusive of Financial Services companies

² Source: Hoovers 2006 Financial Data, Supply-Chain Council 2006 SCM Benchmark data on SCM cost for discrete & process industries

³ CSCMP 19th Annual State of the Logistics Industry

The Dupont Model



Assumption: Financial Leverage is a company-wide constant = Total Assets / Shareholder Equity

SCOR KPI's Help Measure Performance...

KPIs that manage
the activities

Perfect Order Fulfillment

Order Fulfillment Cycle Time

Supply Chain Flexibility

Supply Chain Adaptability[†]

Supply Chain Management Cost

Cost of Goods Sold

Cash-to-Cash Cycle Time

Return on Supply Chain Fixed Assets

Return on Working Capital

Supply Chains
Impact the Levers

Revenue

Expense

Working
Capital

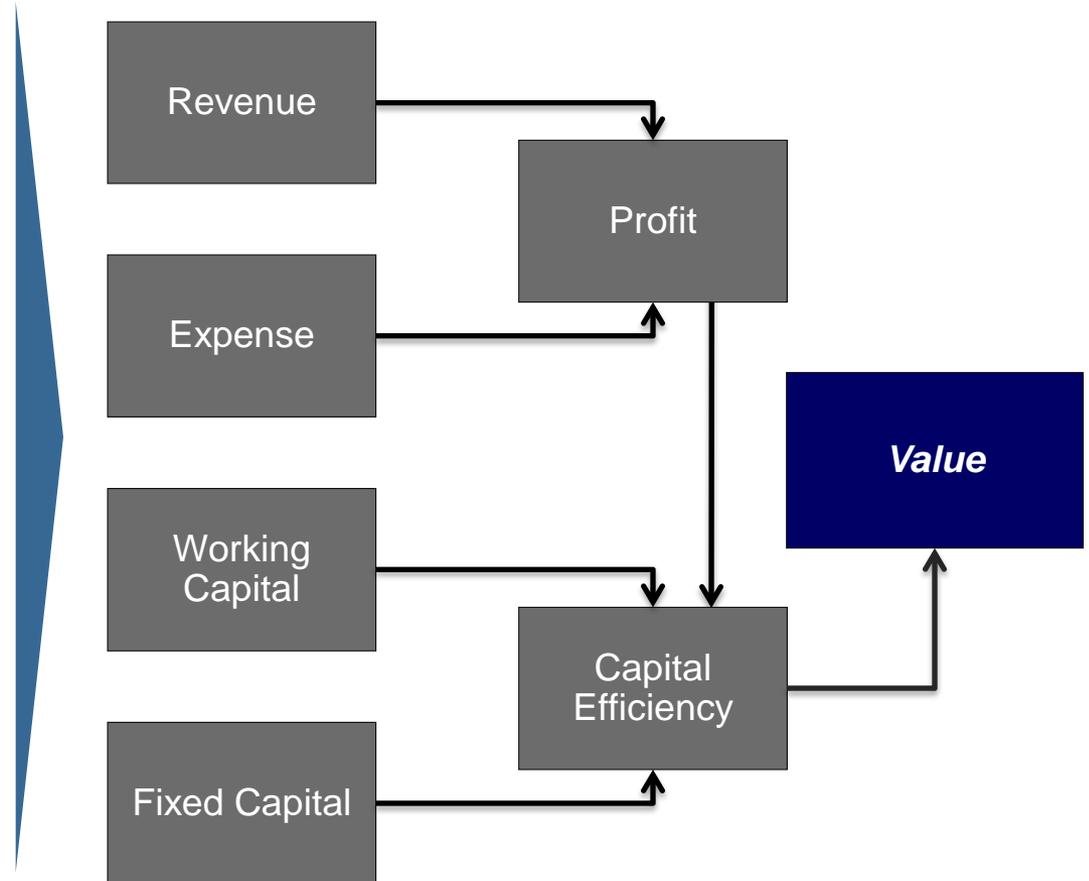
Fixed Capital

& Shareholder
Value

Profit

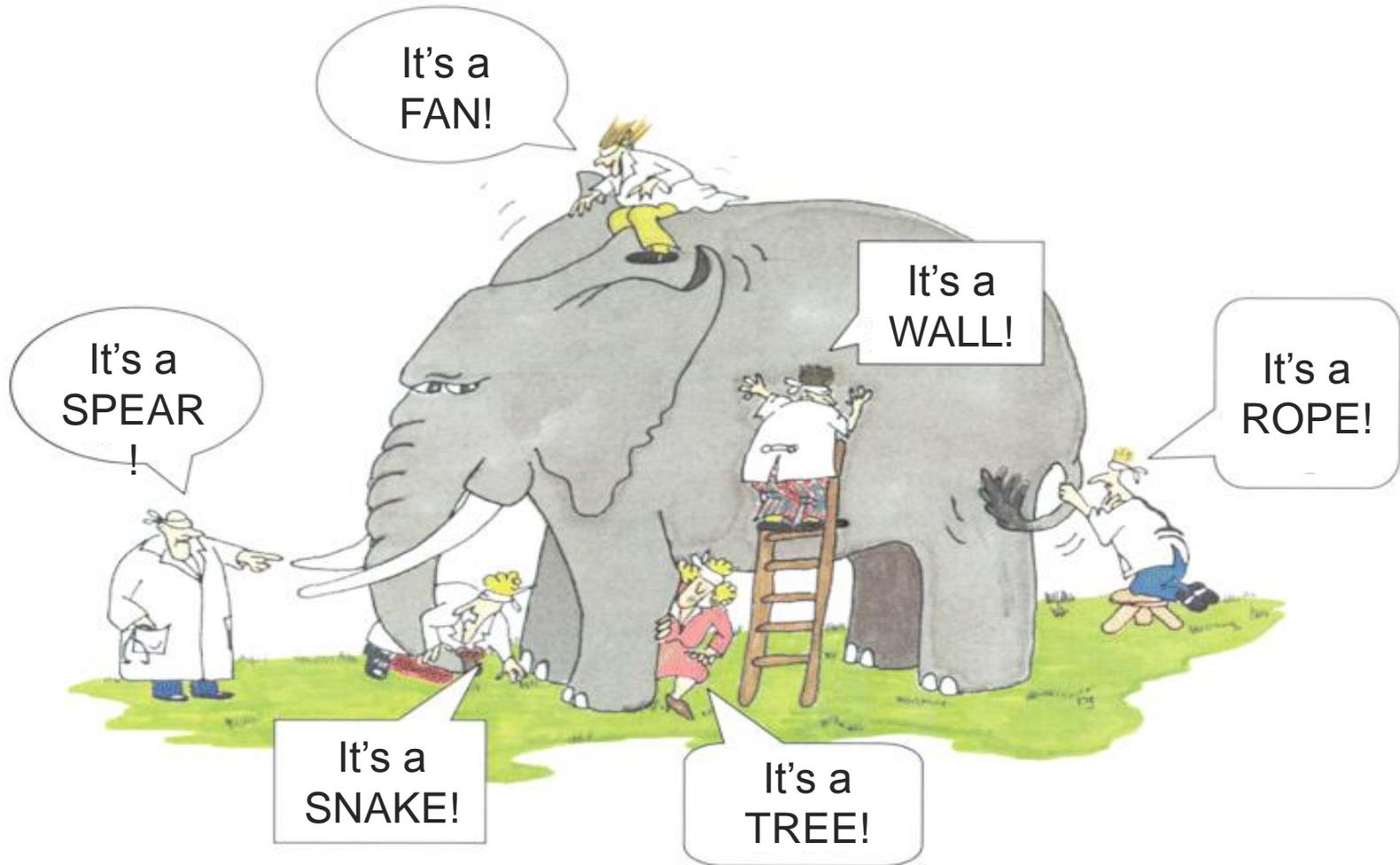
Capital
Efficiency

Value



SUPPLY CHAIN COMPLEXITY SIMPLIFIED USING SCOR FRAMEWORK

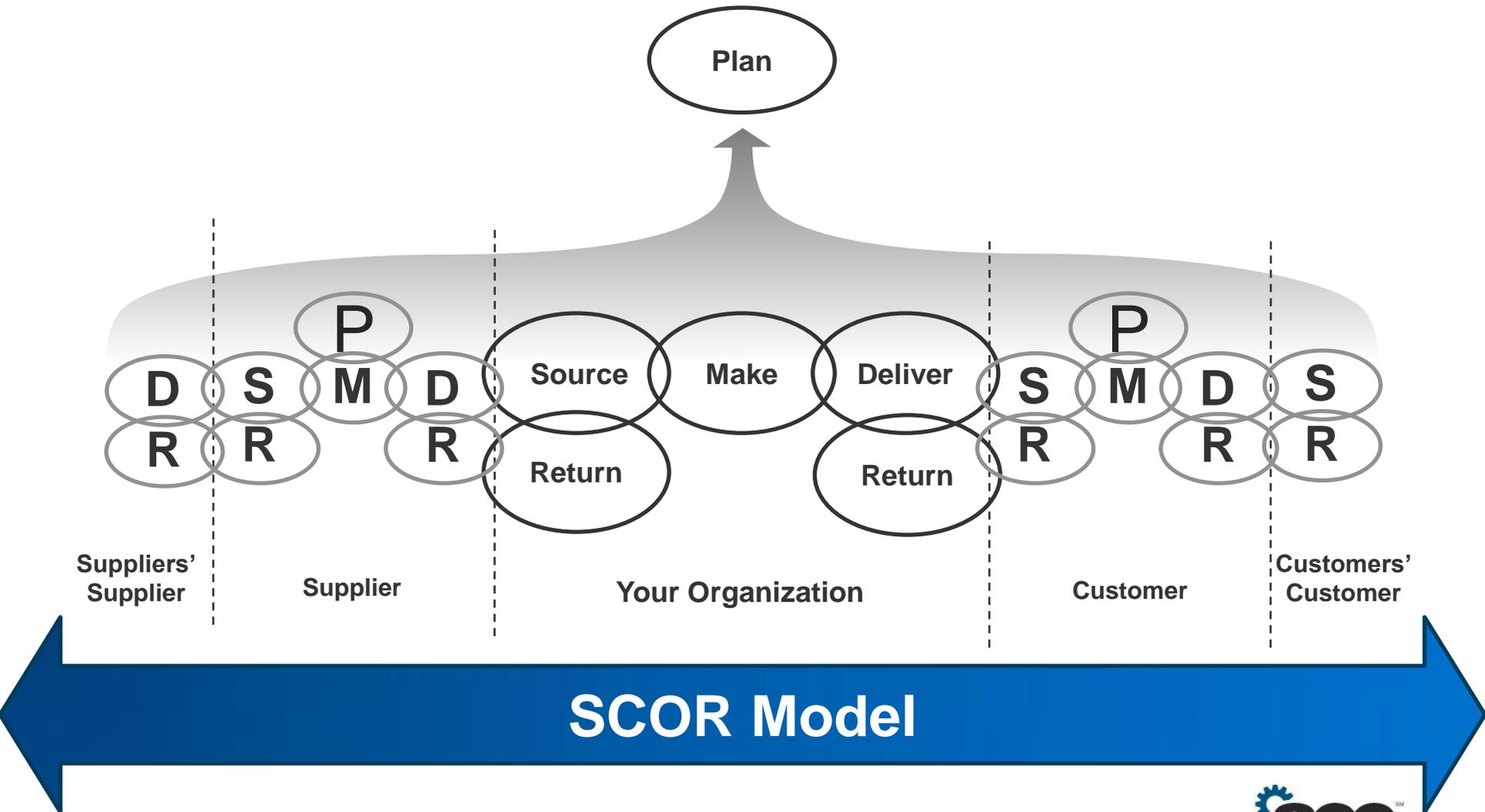
Supply Chain



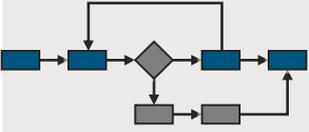
What is a Supply Chain?



SCOR[®] Framework



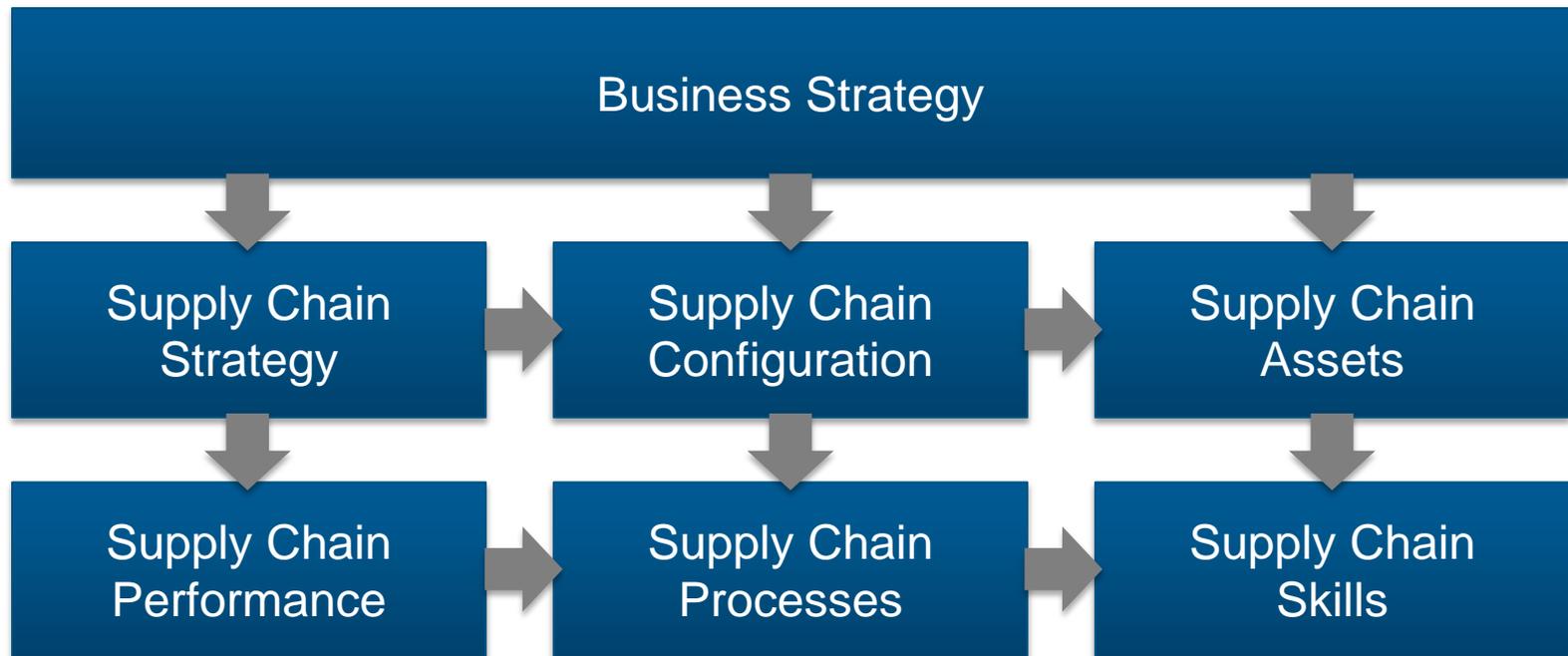
SCOR Hierarchy

Level 1	Level 2	Level 3	Level 4	Level 5
Scope	Configuration	Activity	Workflow	Transactions
Supply-Chain Source	S1 Source Stocked Product	S1.2 Receive Product		EDI XML
Differentiates Business	Differentiates Complexity	Names Tasks	Sequences Steps	Links Transactions
Defines Scope	Differentiates Capabilities	Links, Metrics, Tasks and Practices	Job Details	Details of Automation
Framework Language	Framework Language	Framework Language	Industry or Company Specific Language	Technology Specific Language

Standard SCOR definitions

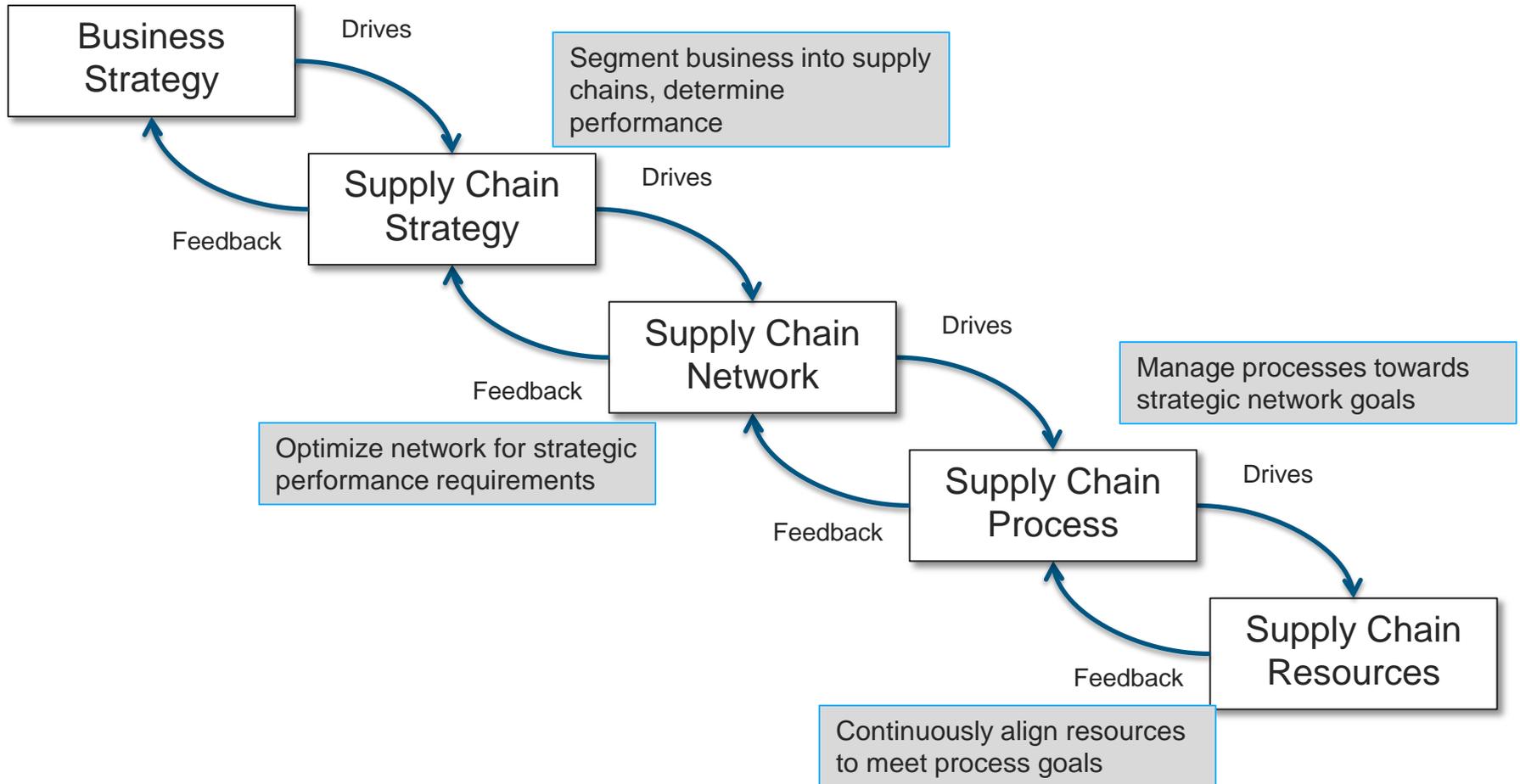
Company/Industry definitions

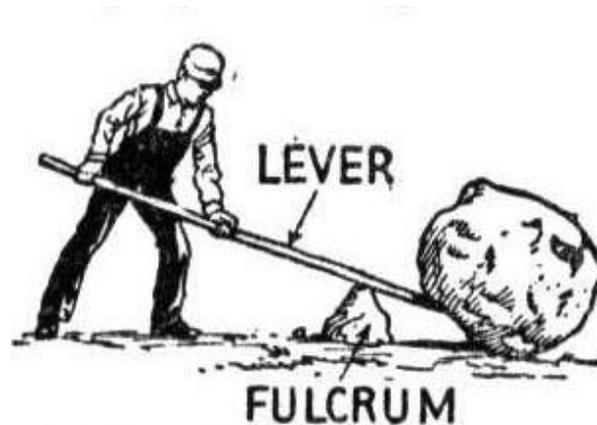
Supply Chain Architecture Overview



Standard for Supply Chain: SCOR®

Layered Management



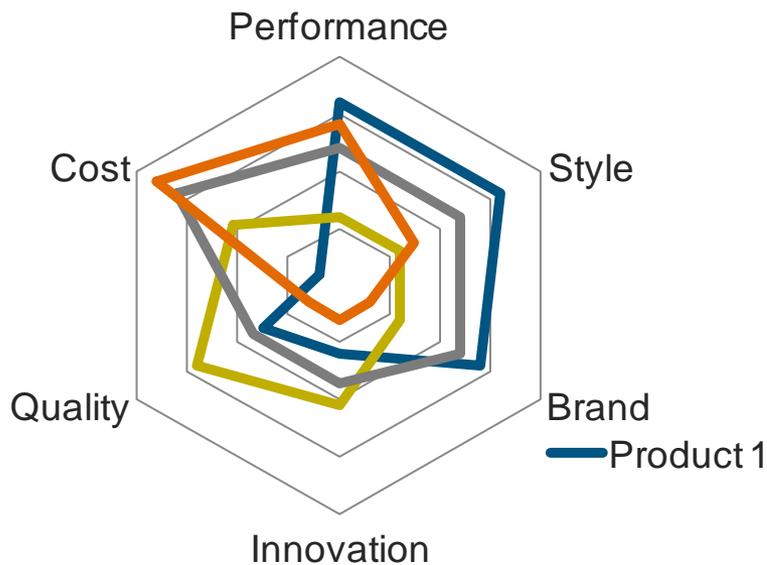


THE BUSINESS' MONEY IS IN SUPPLY CHAIN!

***WHEN IT COMES TO SUPPLY CHAINS, HAVING TWO IS BETTER THAN ONE, AND THREE OR MORE MAY BE BEST OF ALL!
ISLANDS OF PROFIT IN A SEA OF RED INK BYRNES, J.L.S. SR. LECTURER MIT***

Business Strategy

- A product or Service for each Market or Segment
- Supply Chain Definition Matrix is used to define the supply-chains within an enterprise
- Column Generation:
 - › The columns in the matrix are focused on demand e.g. channels or segments or customers
- Row Generation:
 - › The rows in the matrix are focused on supply e.g. business lines or products or locations or suppliers



Market → Product ↓	A	B	C	D
1			✓	
2		✓		✓
3		✓		✓
4	✓			✓

Supply Chain Strategy

- Supply Chain Competitive Attributes

	Attribute	Strategy
Customer	Reliability (RL)	Consistently getting the orders right, product meets quality requirements
	Responsiveness (RS)	The consistent speed of providing products/services to customers
	Agility (AG)	The ability to respond to changes in the market (external influences)
Internal	Cost (CO)	The cost associated with managing and operating the supply chain
	Assets (AM)	The effectiveness in managing the supply chain's assets in support of fulfillment

Supply Chain Strategy

- Supply Chain Competitive Attributes

	Attribute	Required Performance
Customer	Reliability (RL)	
	Responsiveness (RS)	
	Agility (AG)	
Internal	Cost (CO)	
	Assets (AM)	



Supply Chain Performance and Governance

	Metric	Actual	P	A	S	Gap
RL	Perfect Order Fulfillment	82	74	81	88	6
RS	Order Fulfillment Cycle Time	6	10	6	3	--
AG	Flexibility	46	60	45	29	1
CO	SC Management Cost	5.1	9.5	6.7	3.9	--
AM	Cash-to-Cash Cycle Time	83	98	64	30	--



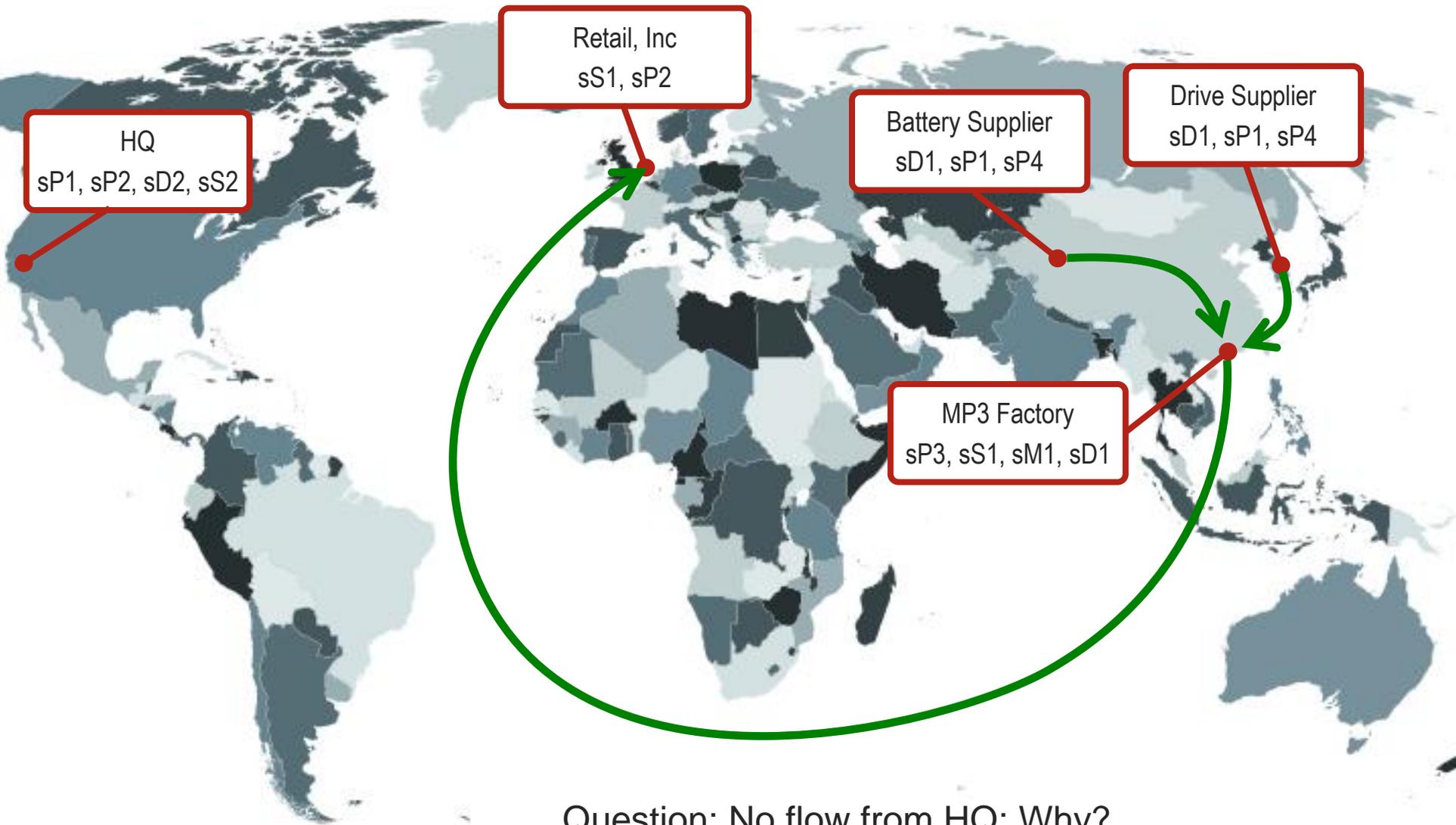
	Attribute	Required Performance
Customer	Reliability (RL)	S
	Responsiveness (RS)	A
	Agility (AG)	P
Internal	Cost (CO)	P
	Assets (AM)	A

Supply Chain Performance and Diagnosis

- Diagnostic metric relationships enable root cause analysis

Metric	Level
Perfect Order Fulfillment	1
↳ On-time	2
↳ In-Full	2
↳ Correct Items	3
↳ Correct Quantities	3
↳ Perfect Documentation	2
↳ Initial Quality	2

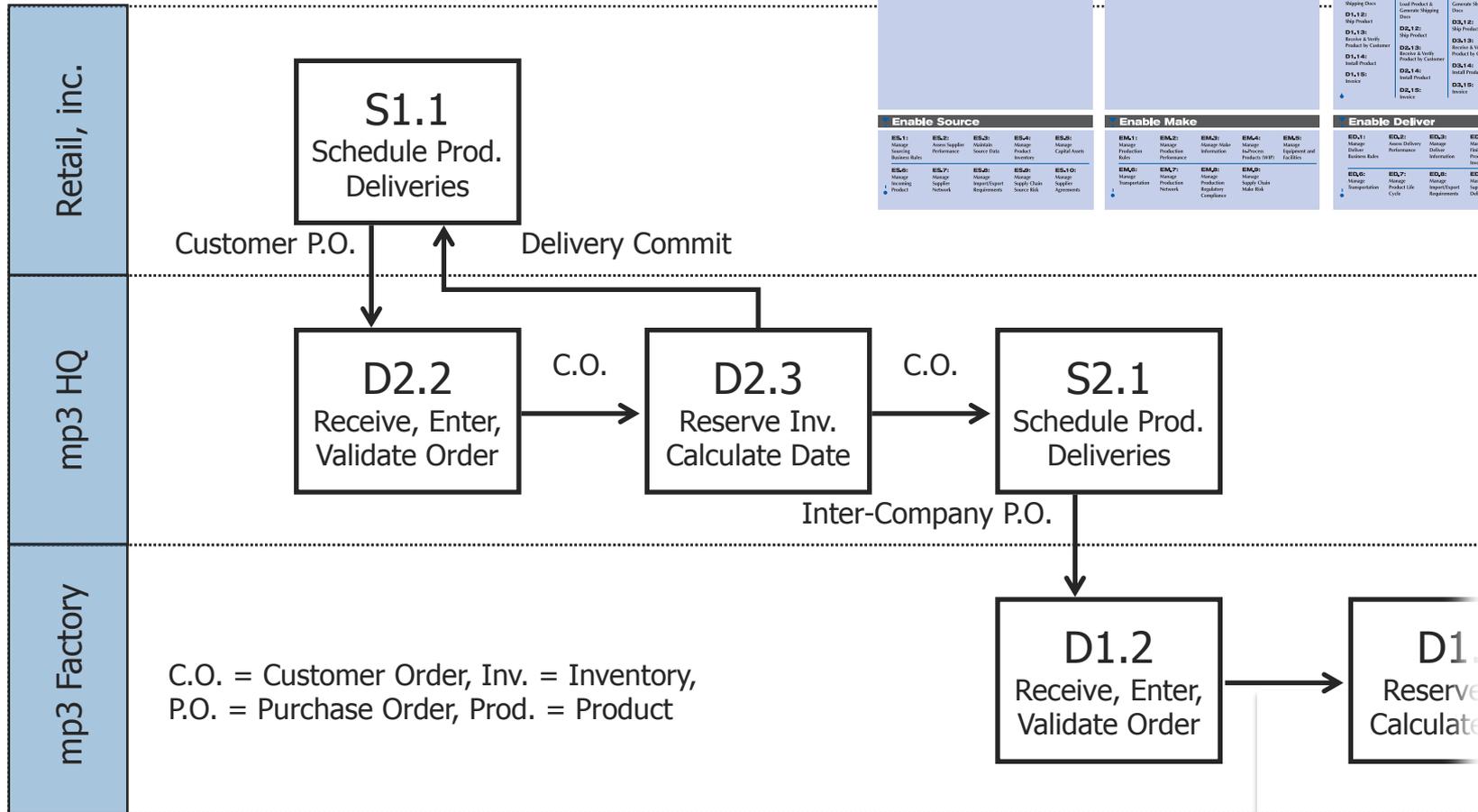
Result: The Geographic Map



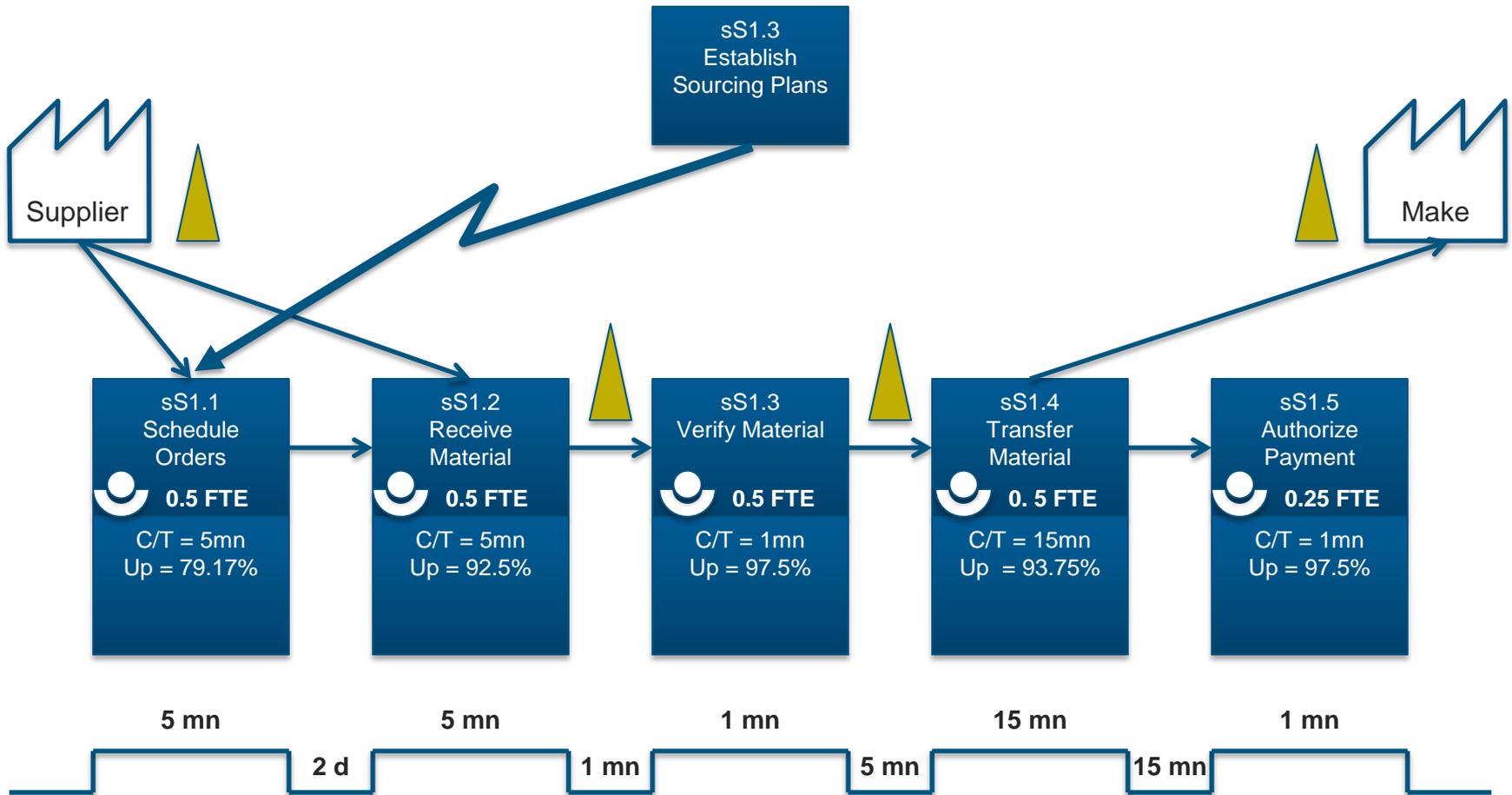
Supply Chain Processes

SOURCE			MAKE			DELIVER			
S1 Source Stocked Product	S2 Source Make-to-Order Product	S3 Source Engineer-to-Order Product	M1 Make-to-Stock	M2 Make-to-Order	M3 Engineer-to-Order	D1 Deliver Stocked Product	D2 Deliver Make-to-Order Product	D3 Deliver Engineer-to-Order Product	D4 Deliver Retail Product
S1.1: Schedule Product Deliveries	S2.1: Schedule Product Deliveries	S3.1: Identify Sources of Supply	M1.1: Schedule Production Activities	M2.1: Schedule Production Activities	M3.1: Product Engineering	D1.1: Process Inquiry & Quote	D2.1: Receive & Enter Order	D3.1: Order & Respond to RFQ/RFP	D4.1: Contract Booking Schedule
S1.2: Receive Product	S2.2: Receive Product	S3.2: Select Raw Suppliers and Suppliers	M1.2: Issue Product	M2.2: Issue Product	M3.2: Schedule Production Activities	D1.2: Receive, Enter & Validate Order	D2.2: Receive, Enter & Validate Order	D3.2: Negotiate & Receive for Contract	D4.2: Receive Product of the Line
S1.3: Produce and Test	S2.3: Verify Product	S3.3: Schedule Product Deliveries	M1.3: Produce and Test	M2.3: Produce and Test	M3.3: Issue Product	D1.3: Receive Inventory & Determine Delivery Date	D2.3: Receive Inventory & Determine Delivery Date	D3.3: Enter Order, Cancel Reservations & Launch Program	D4.3: Pick Product from Backroom
S1.4: Transfer Product	S2.4: Transfer Product	S3.4: Receive Product	M1.4: Package	M2.4: Package	M3.4: Produce & Test	D1.4: Consolidate Orders	D2.4: Receive Inventory & Determine Delivery Date	D3.4: Receive Inventory & Determine Delivery Date	D4.4: Pick, Pack, Ship
S1.5: Address Supplier Payment	S2.5: Address Supplier Payment	S3.5: Verify Product	M1.5: Ship Product	M2.5: Ship Product	M3.5: Ship Product	D1.5: Build Lead	D2.5: Build Lead	D3.5: Schedule Invoicing	D4.5: Ship, Ship
		S3.6: Ship Product	M1.6: Release Product to Deliver	M2.6: Release Product to Deliver	M3.6: Release Product to Deliver	D1.6: Batch Shipments	D2.6: Batch Shipments	D3.6: Batch Shipments	D4.6: Check-out
		S3.7: Address Supplier Payment	M1.7: Visual Signal	M2.7: Visual Signal	M3.7: Visual Signal	D1.7: Batch Carries & Run Shipments	D2.7: Batch Carries & Run Shipments	D3.7: Select Carries & Run Shipments	D4.7: Deliver and/or Load
						D1.8: Receive Product from Source or Make	D2.8: Receive Product from Source or Make	D3.8: Receive Product from Source or Make	
						D1.9: Pick Product	D2.9: Pick Product	D3.9: Pick Product	
						D1.10: Pack Product	D2.10: Pack Product	D3.10: Pack Product	
						D1.11: Load Product & Generate Shipping Data	D2.11: Load Product & Generate Shipping Data	D3.11: Load Product & Generate Shipping Data	
						D1.12: Ship Product	D2.12: Ship Product	D3.12: Ship Product	
						D1.13: Receive & Verify Product for Customer	D2.13: Receive & Verify Product for Customer	D3.13: Receive & Verify Product for Customer	
						D1.14: Issue Product	D2.14: Issue Product	D3.14: Issue Product	
						D1.15: Invoice	D2.15: Invoice	D3.15: Invoice	
									D4.8: Manage Order Capital Assets

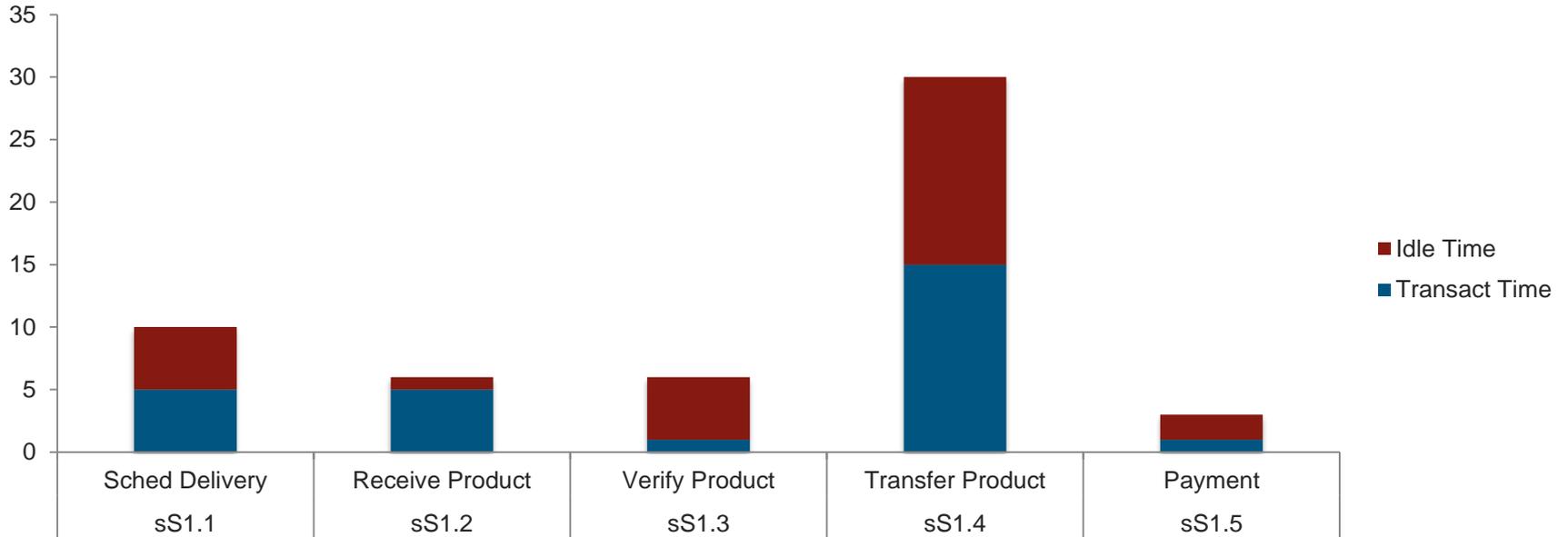
- Work and Information Flows



Example Value Stream Map



Example PCE Analysis



		Transact Time	Idle Time	Transact per Hour	FTE	Rework/Day	PCE	Yield	Waste
sS1.1	Sched Delivery	5	5	3	0.5	5	50.00%	79.17%	20.83%
sS1.2	Receive Product	5	1	5	0.5	3	83.33%	92.50%	7.50%
sS1.3	Verify Product	1	5	5	0.5	1	16.67%	97.50%	2.50%
sS1.4	Transfer Product	15	15	2	1	1	50.00%	93.75%	6.25%
sS1.5	Payment	1	2	5	0.25	1	33.33%	97.50%	2.50%

SCOR ROADMAP PROVIDES RAPID TURNAROUND

SCOR IMPROVEMENT AREAS AND POTENTIAL VALUE

Typical Potential Improvements¹

Area	Improvement
Raw materials purchase cost	25%
Cost of Distribution	35%
Total resource deployed	50%
Manufacturing space	50%
Investment in Tooling	50%
Order cycle time	60%
New product development cycle	60%
Inventory	70%
Paperwork and Documentation	80%
Quality Defects	100%

¹Hughes & Michels (1998) *Transform your supply chain. Releasing value in business.* London, UK

Comparative Data¹

Improvement Area	Range
Delivery performance	16% - 28%
Inventory Cost Reduction	25% - 60%
Reduction in order fulfillment cycle time	30% - 50%
Improvement to forecast accuracy	25% - 80%
Increase in overall productivity	10% - 16%
Lower supply chain costs	25% - 50%
Improvement of fill rates	20% - 30%
Improved capacity realization	10% - 20%

¹Stephens (2000) *1997 Comparative Study* Pittsburg, USA

SCM Asset Returns: Superior Valuation

NAME		LAST TRADE	DAY CHANGE	2003-2007 GROWTH	TIME
SCOR Companies Index	(SCOR)	2214.31	29.58	59.63 %	4:00pm ET
Dow Jones Industrial Average Index	(DJI)	10424.62	102.32	21.19 %	4:02pm ET
Standard & Poors 500 Index	(S&P)	1102.66	8.99	21.35 %	5:00pm ET



About Supply Chain Council

- SCC is an independent, **not-for-profit, trade** association
- **Membership** open to all **companies** and **organizations**
- Founded in 1996
- **Regional** representation (chapters) **worldwide**: North America, Europe, Japan, Southern Africa, Latin America, Australia/New Zealand, Southeast Asia, Greater China, and Middle East
- **Focus on research, application and advancement and advancing state-of-the-art** supply chain management systems and practices
- **Developer** and **endorser** of the Supply Chain Operations Reference (SCOR®) as a cross-industry standard for supply chain management
- Offers **Training, Certification**, Benchmarking, Research, Team Development, Coaching, and Cross-standard Integration focused on the SCOR® framework
- Approaching 1000 Association Members within global chapters

Sample of Industry Membership Scope



For More Information

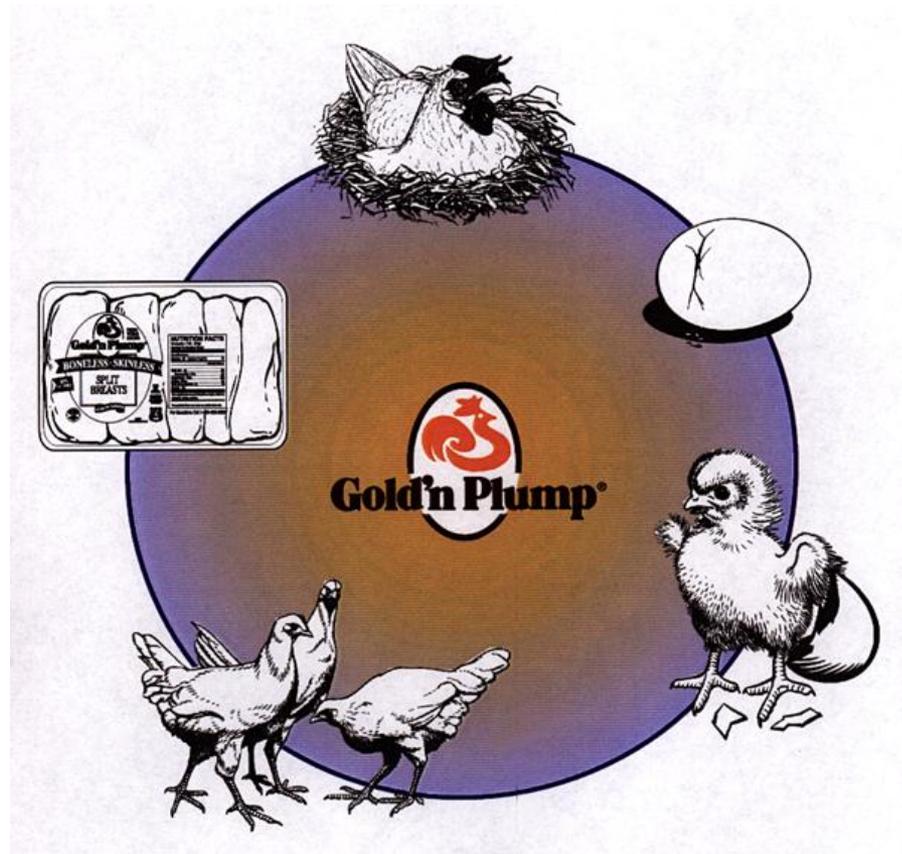
W: WWW.SUPPLY-CHAIN.ORG

E: INFO@SUPPLY-CHAIN.ORG



Value Proposition and Supply Chain Optimization

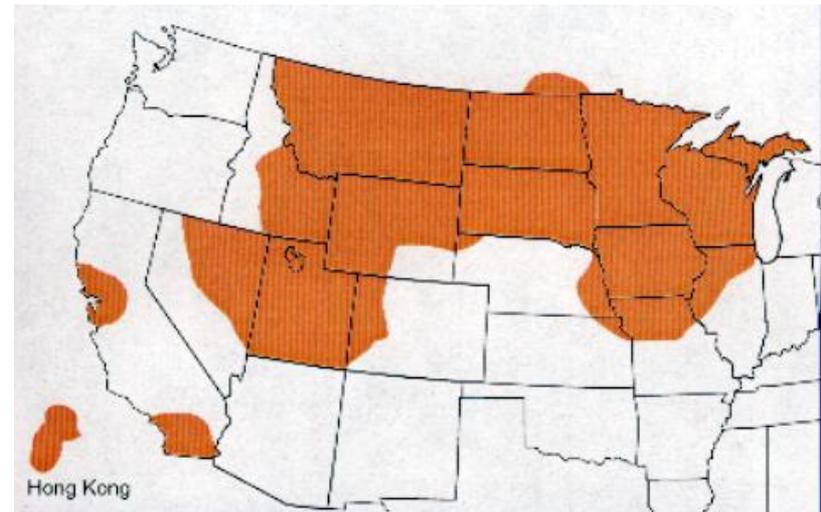
Who Is Gold'n Plump Poultry?



A provider of **PREMIUM BRANDED, VALUE-ADDED** poultry products and related services.

OUR MARKET AREA

- Domestic distribution spans 17 states in central and western U.S.
- International distribution includes Canada, Hong Kong, China, Singapore and Russia

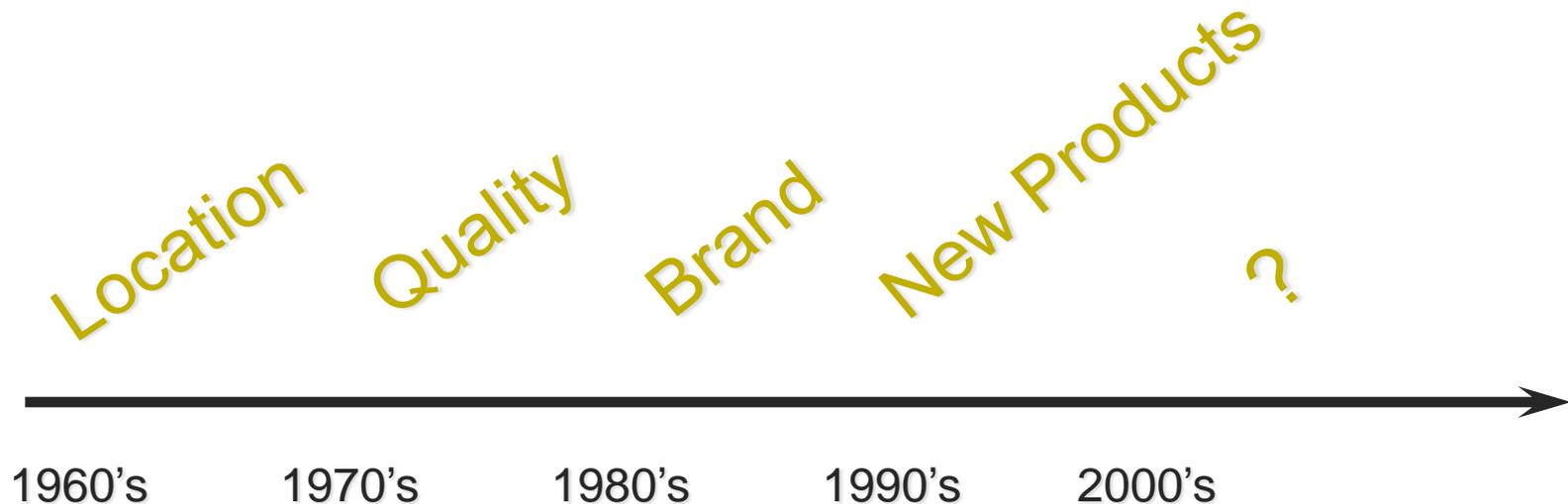


- GNP will be a market leader in providing innovative solutions to our customer's needs. Our product and service solutions will add value at the lowest possible cost, generating the most profitable returns.



GnP's Value Proposition

GnP must continue the value evolution.
We must go beyond product value to new enhanced value propositions.



Collaborative Solutions?

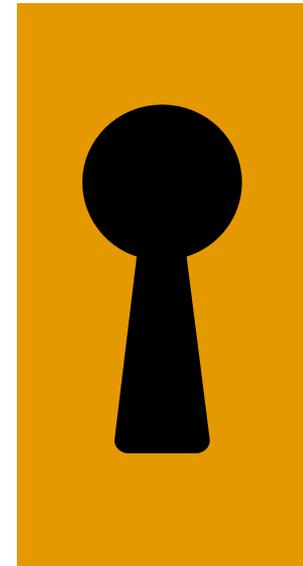
The winners in the future will not be the best *manufacturer* or best *distributor* or the best *retailer*.

The winners will be the best combination of manufacturer, distributor and retailer that most efficiently provides the highest value to the consumer.

Turnkey Solutions

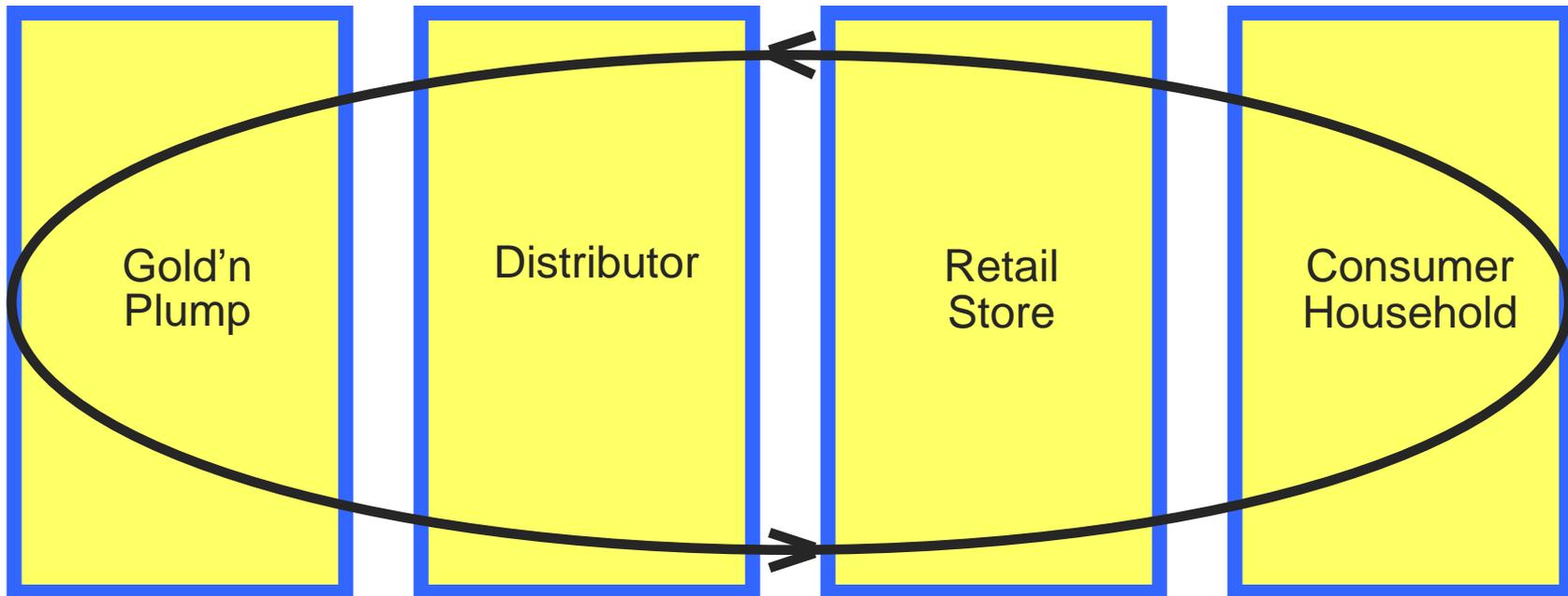
As a manufacturer we must:

- Manage inventories to plan
- Provide perfect order fill rate
- Forecast base and feature business
- Reduce slots need for inventory
- Provide flexible pricing options--by geographic zone, by store, by day, by hour
- Automatic and continuous inventory replenishment
- Cut order lead time
- Minimize shipping errors
- Cut distribution costs
- Communicate in real time



Collaborative Planning, Forecasting and Replenishment Systems

Timely, Accurate, Paperless Information Flow



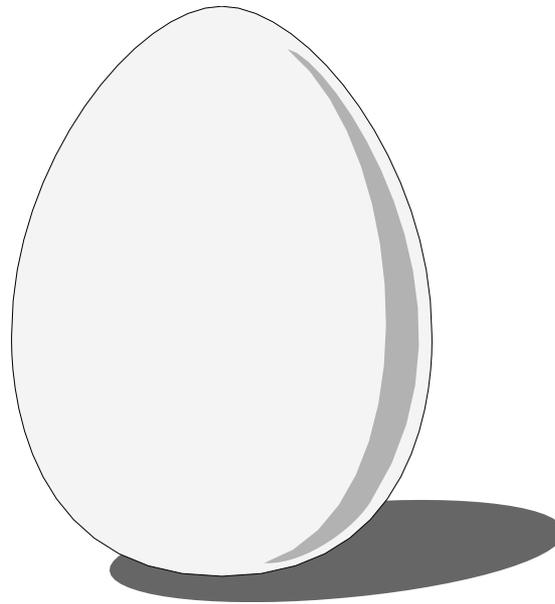
Smooth, Continual Product Flow Matched to Consumption



supply chain council

Then The Question Was...

What tools are needed to crack this egg?

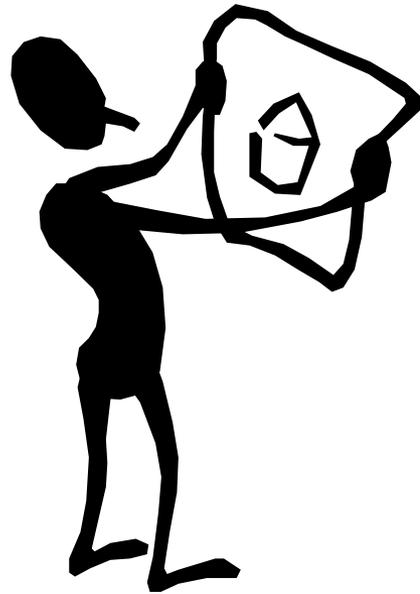
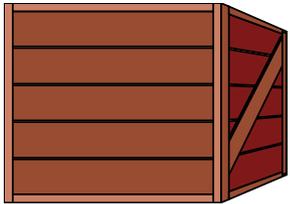


In the Tool Box we had ...



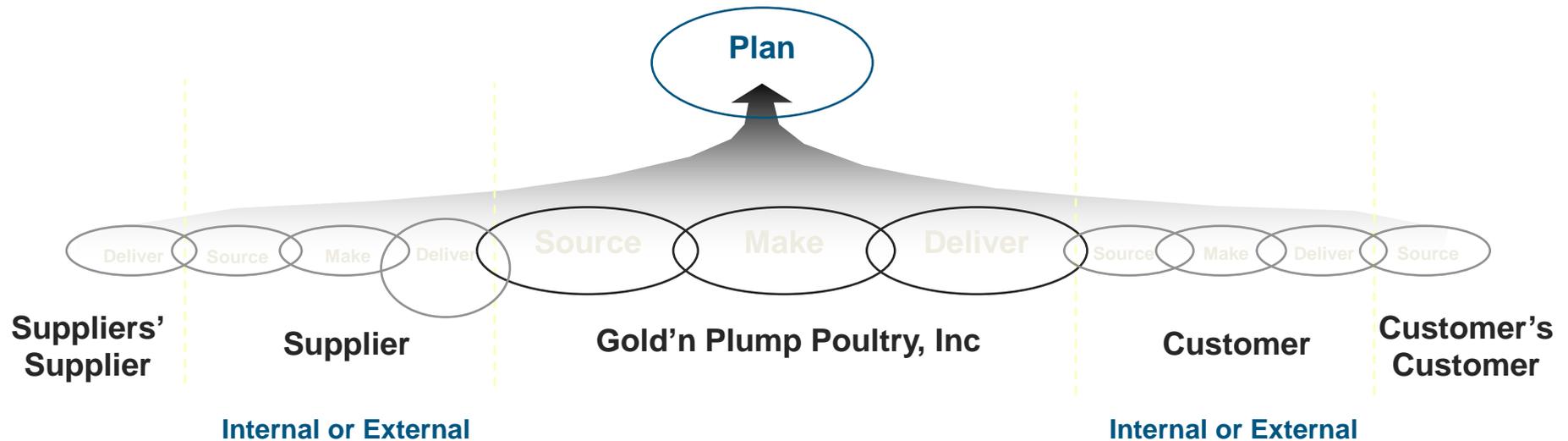
...fixed weight scannable products, but...

...the **Tool Box** needed
a blueprint and a construction
manager.



SCOR

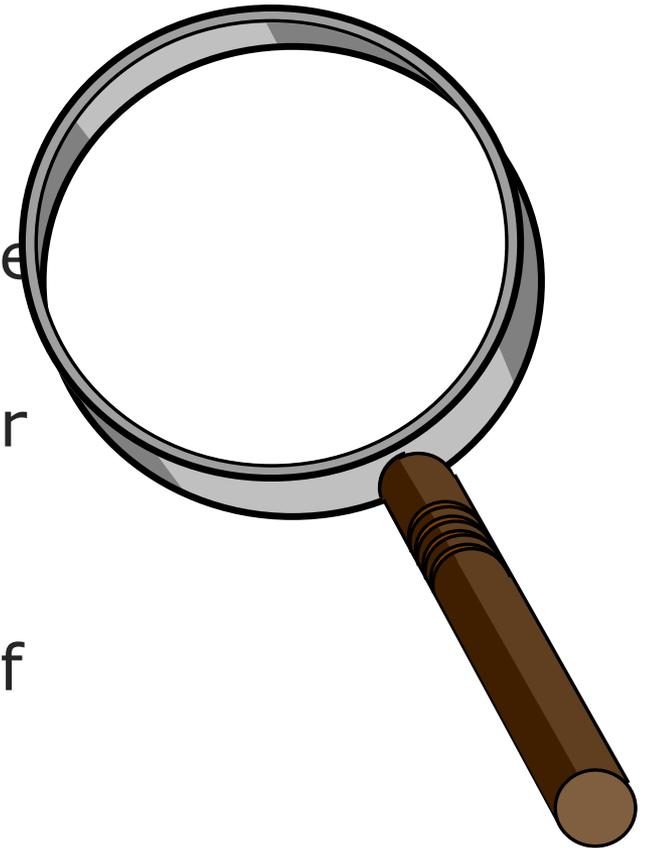
Founded on Four Distinct Management Processes



← SCOR Process Reference Model →

Plan Focus

- Familiarization with SCOR
- Configure our supply chain
- Link business objectives and supply chain design/performance
- Define value and margin enhancement goals for customer and Gold'n Plump Poultry
- Develop and implement internal sales order processing portion of the SCOR model



Project Roadmap

1 Analyze Basis of Competition

Operations Strategy

- Supply Chain Scope
- Performance Metrics
- Supply Chain SCORcard
- Competitive Performance Requirements
- SCORcard Gap Analysis
- Business Case

SCOR Level 1

2 Configure Supply-Chain

Material Flow

- AS IS Geographic Map
- Disconnects
- Design Specifications
- TO BE Geographic Map
- AS IS Process Flow
- TO BE Process Flow

SCOR Level 2

3 Align Performance Levels, Practices, and Systems

Information and Work Flow

- AS IS Work/Information Map
- Disconnects
- Design Specifications
- TO BE Work/Information Map

SCOR Level 3

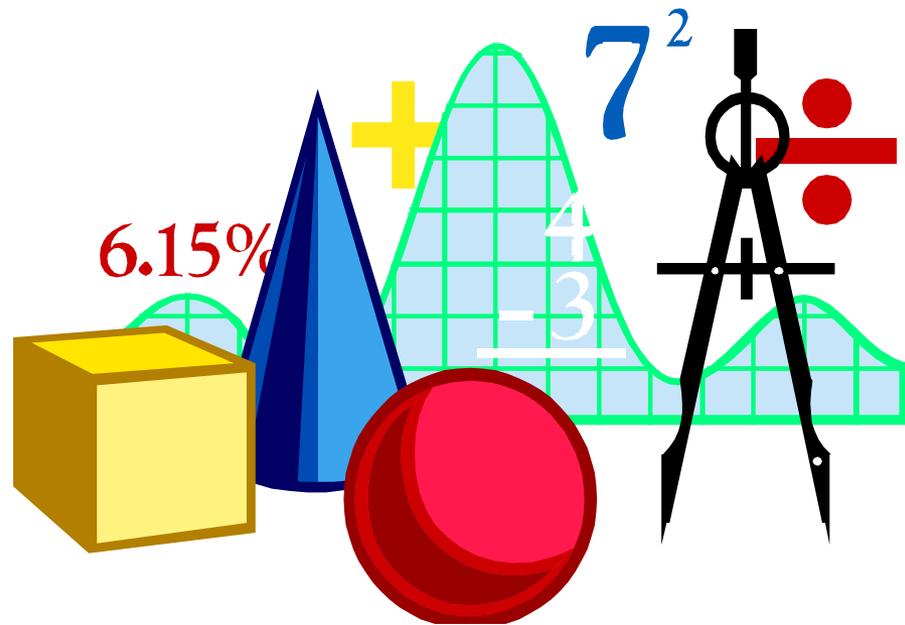
4 Implement Supply-Chain Changes

Project Implementation

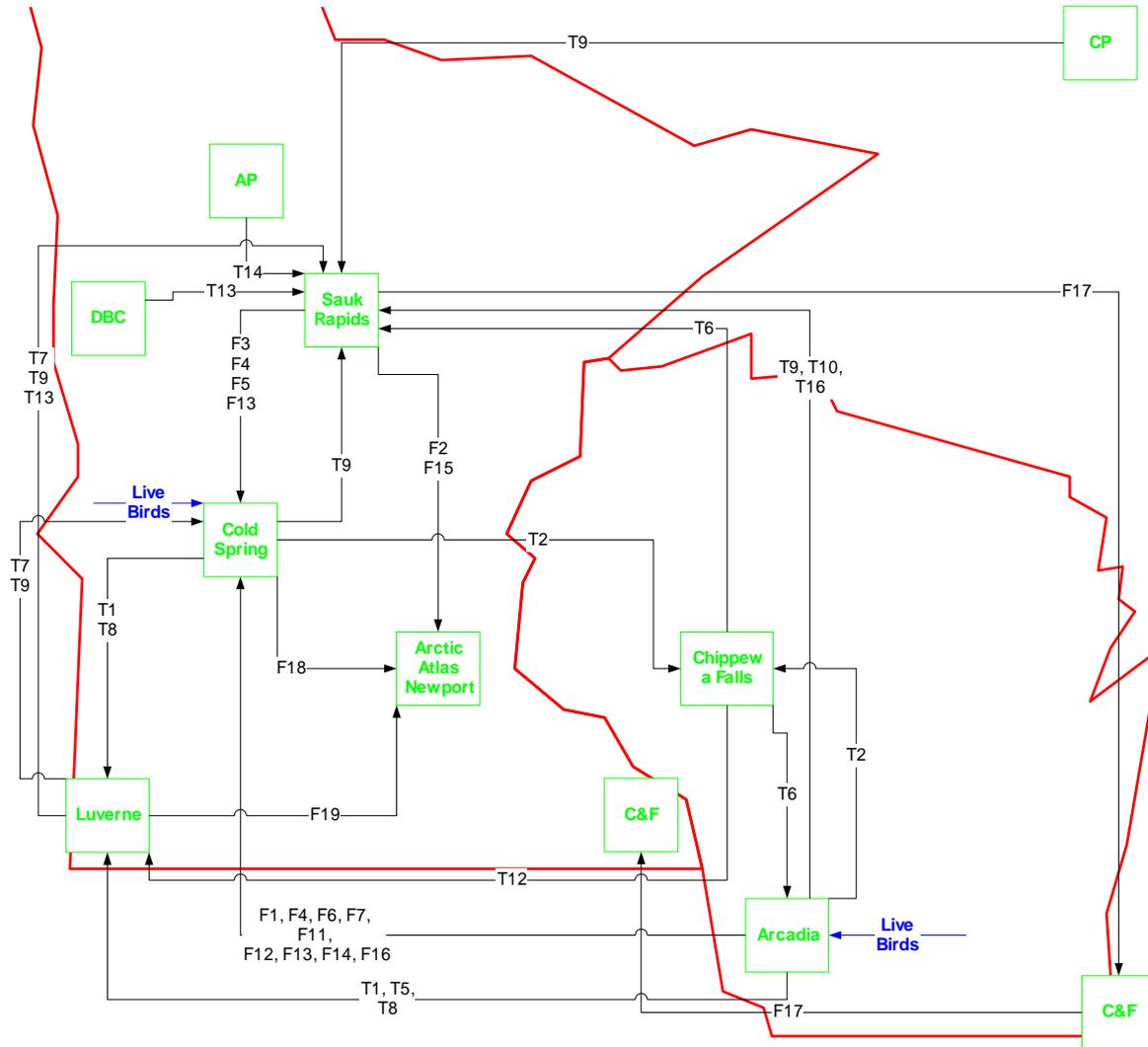
- Project Plan
- Develop/Test
- Technology Selection
- Implementation

Process Mapping

- Geographic Map
- Material Flow
- Process Planning
- Demand Planning

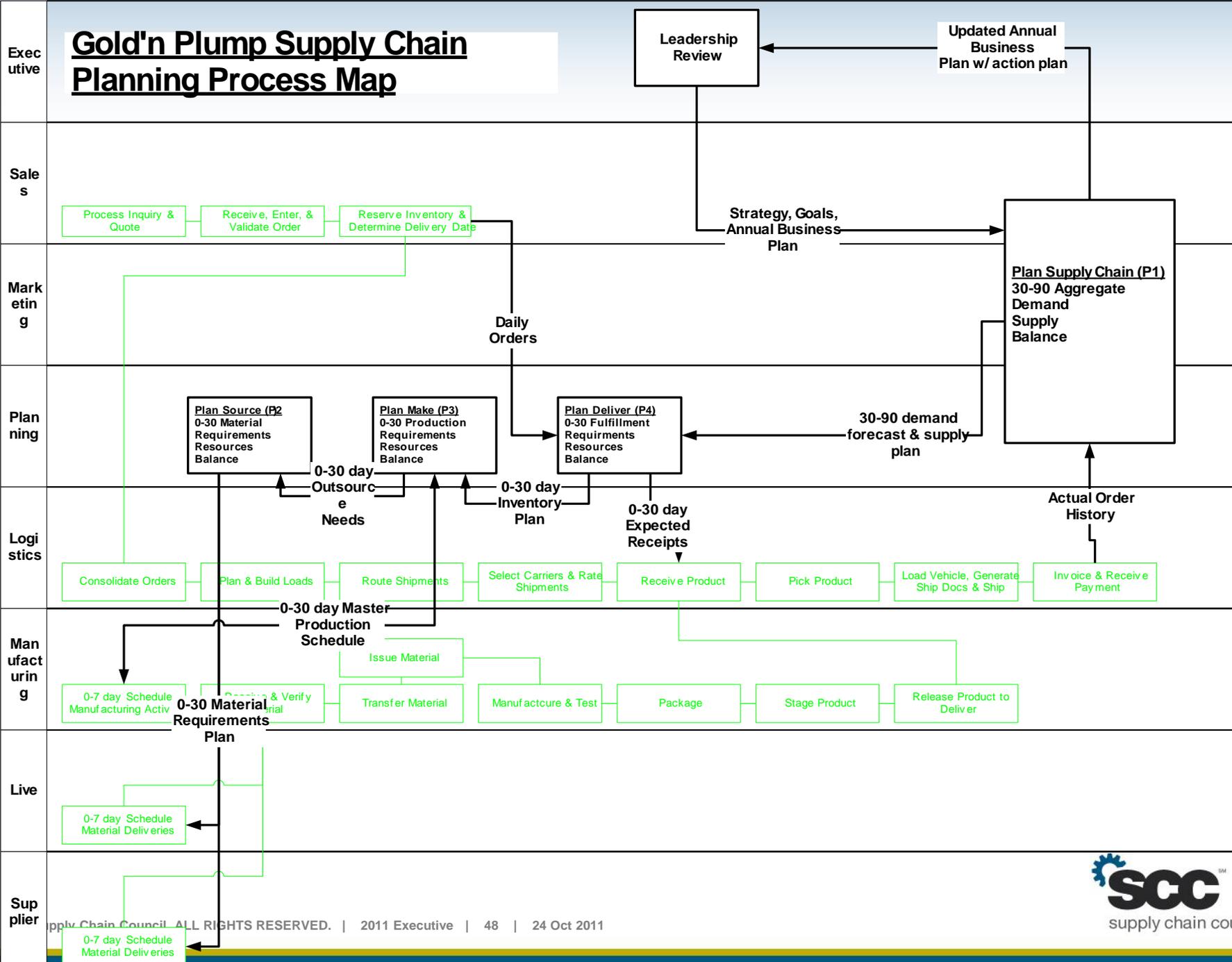


AS IS Geographic Map 8/26/99



- Key**
- F1 Deli 8-9 piece
 - F2 Bnls IQF
 - F3 Bnls whole brst
 - F4 Bnls trays
 - F5 Bnls trays - marn
 - F6 Bone in seg parts trays
 - F7 Bone in w.bird trays
 - F8 WOG's
 - F9 Bnls thighs
 - F10 Comminuted
 - F11 Marn. polybag
 - F12 Polybag
 - F13 Bulk
 - F14 8-9 piece marn
 - F15 8 pc IQF
 - F16 Marn. WOG
 - F17 Marn. B/S
 - F18 Cartons
-
- T1 Fronts
 - T2 Thighs
 - T3 Small WOG's
 - T4 WOG's
 - T5 Cages
 - T6 Bnls thighs
 - T7 Wings
 - T8 Caps
 - T9 Bnls breast
 - T10 Cut birds
 - T11 Bone in cut breast
 - T12 Back/bone
 - T13 Brst Tender
 - T14 Brg
 - T15 Stuffing
 - T16 Marn. Parts

Gold'n Plump Supply Chain Planning Process Map



Timelines



Project Start:

September '99



Right Team
Right Focus
Right Priority
Right Tools



Project Finish:

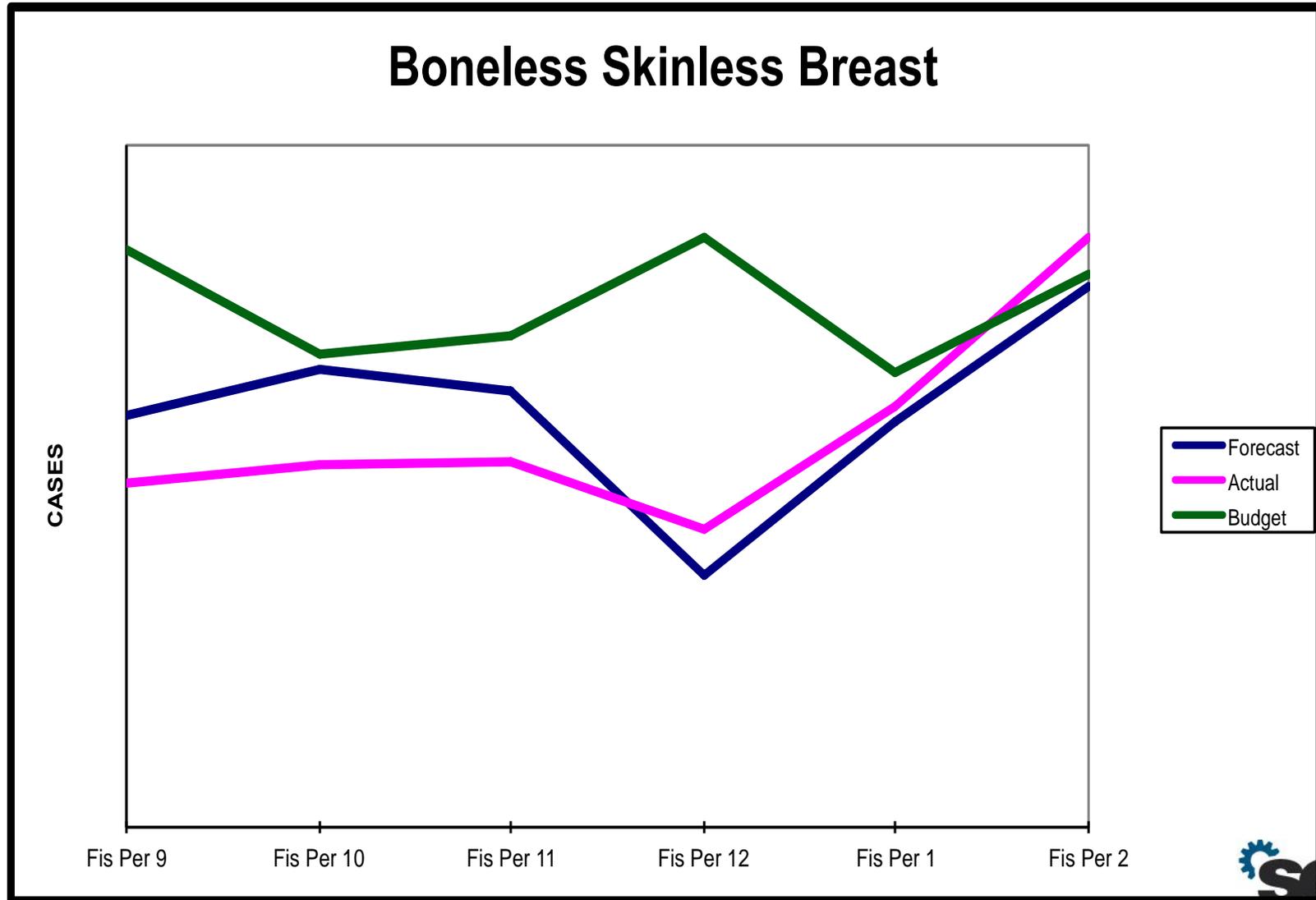
November '00

Implemented Changes

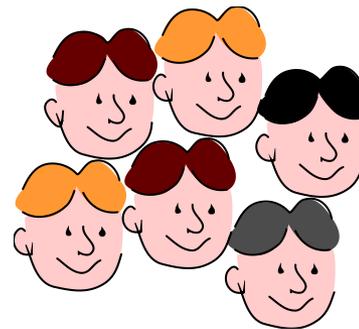
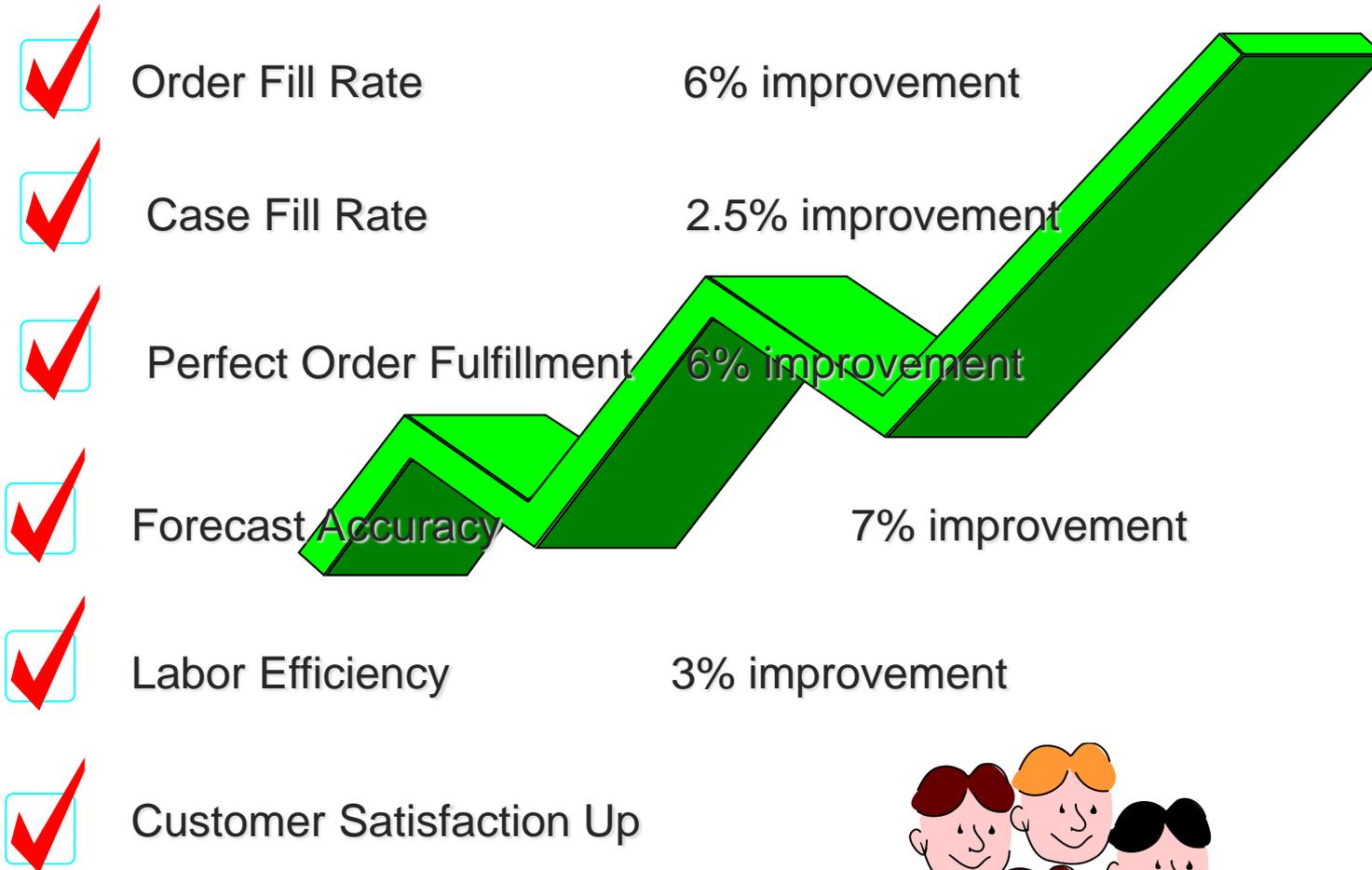
- Over 75% of planning steps were new.
- Implemented JBA manufacturing system.
- Developed/implemented new organizational structure to support demand and supply planning. (Two new job requirements.)
- Plants went to “make to schedule” and were measured to attainment.
- Sales and marketing took responsibility for demand planning.
- Revamped weekly tactics meeting to follow SCOR metrics.
- Established and maintained an integrated promotional calendar.
- Unit and financial summary replaces the current financial estimation process.



Graphic Results



Results Since December '99



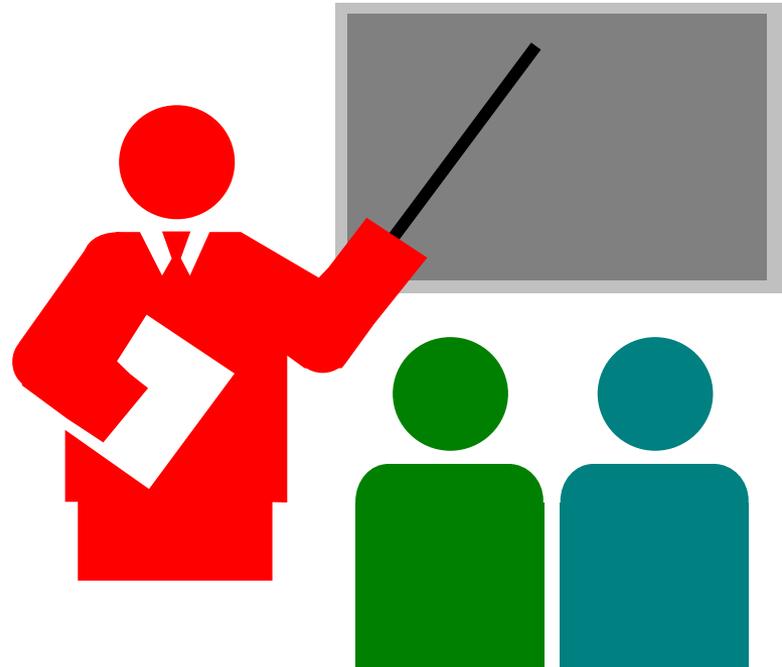
Well on Our Way to Our Efficiency Goals With Supply Chain Optimization?

Total Margin Improvement \$4,300,000
Freight
Labor Efficiency
Discounts



What Went Right?

- Clear vision
- Company wide commitment--no organizational barriers
- Defined supply chain metrics
- Efficient information systems



www.supply-chain.org

info@supply-chain.org

