

Digital Capabilities Part 1

Maximizing Functionality Leveraging with SCOR Digital Standard Process Blueprints

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Key Takeaways

- Insights on how ASCM corporate leaders are accelerating digital capabilities while mitigating technology investment risk
- Illustration on how the SCOR Digital Standard and the new Digital Capabilities Model are being used to develop process blueprints
- Use-case discussion focused on supply chain planning



Session Outline

- 1. The case for doubling down on digital investments
- 2. The transition from linear supply chains to asynchronous supply networks
- 3. Standardizing processes to increase system functionality as the first step toward digital transformation
- 4. Use case: supply chain planning
- 5. Questions





Leader or Laggard?

The case for doubling down on digital investments

Profile of ASCM Corporate Community

ASCM clients include some of the biggest and best supply chains in the world.

ASCM Foundation

bridges public, private sector, government, NGO, Private Foundation and Academic engagement

Private sector

includes 300 leading corporations

Corporate Member Directory

200+
in the Global 2000,
Fortune 1000, Global 250

19 Industries

27
Countries

60% in the Gartner Top 25

7,500+Employees

1,000+
Supply Chain Leaders



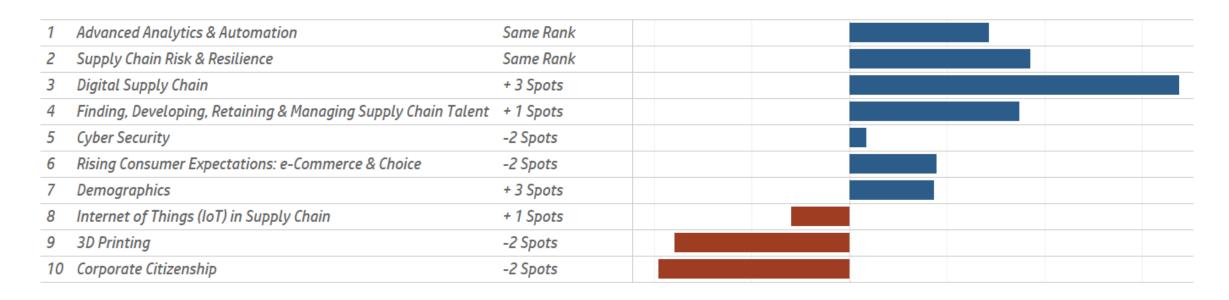
ASCM Top 10 Supply Chain Trends by the Numbers

- 13 members of the research, innovation, and strategy committee
- 114 research resources
- 130 sub-trends
- 30 consolidated trends
- 14 ranked trends
- 10 top trends in supply chain





2020 Ranking, Rising and Falling



Importance 20' vs 19'

Source: Supply & Demand Chain Executive



Resilient Supply Chains Put Money in the Bank and Make the World a Better Place – at the Same Time.

Leaders with resilient supply chains responded better, recovered with more agility and are now growing their businesses faster than their **Laggard** counterparts...

- Sensed earlier November versus February
- Balanced supply-demand better higher average factory utilization November to March
- Leveraged lessons learned from previous disruptions to minimize supply shocks and maximize agility (the time needed to respond to unplanned demand)
- Minimized service and cost impact to customers and shareholders
- Are more likely to support the shift to circular business models
- ⇒ **Doubled down on digital investments** made 18 to 24 months ago
- ⇒ Best suited to advance competitive advantage and capture market share during and after a recession



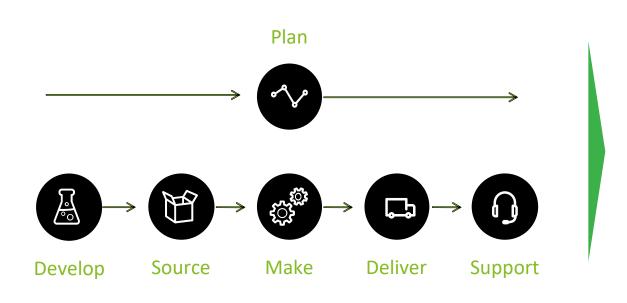


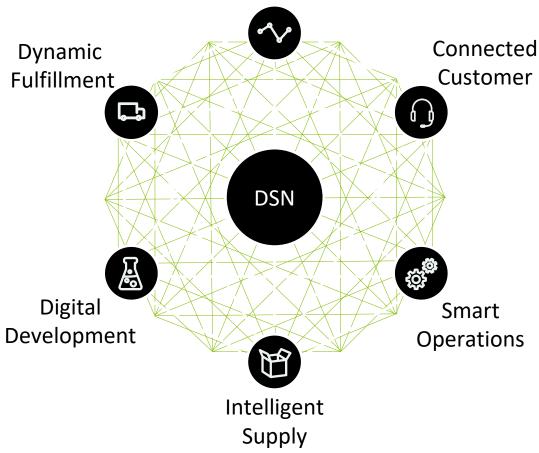
The Digital Capabilities Model

The transition from linear supply chains to digital supply networks (DSNs)

Shift from Sequential Chains to Concurrent Networks

Traditional supply chains were not designed to support the next generation network. DSNs allow us to move from sequential chains to concurrent networks





Synchronized

Planning



Digital Capabilities Model (DCM) Release 1 provided the foundation

About DCM

- The Digital Capabilities Model (DCM) for Supply Networks is a framework designed to help transform supply chain management for today's increasingly interconnected and digital world.
- This new model helps companies advance their capabilities from traditional linear supply chains to digital supply networks, the dynamic, interconnected systems that simultaneously plan, execute and enable digital supply chains.

DCM Features

- Level 1 & 2 capability definitions & Level 2 connections for key supply chain functions
- Digital supply networks personas, understanding the next generation roles of the planning organization in the DSN
- Capability journey maps showing the journey of each L2 in a capability's respective horizon
- Capability maturity assessments that calibrate a company's progress of transforming into a digital supply network at each L2 capability





Digital Capabilities Model for Supply Networks

The objective of the Digital Capabilities Model for Supply Networks is intended to provide the supply chain profession a reference model to guide the development of digital supply networks. The model is designed in a relational manner to help supply chain professionals envision and then build digitally-enabled capabilities required to transform their linear supply chains into a set of dynamic networks. 2019 marks the start of a multiyear journey to develop, pilot, and evolve the model based on feedback from ASCM members worldwide.

Level-1 Capabilities

- Connected Customer
- Product Development
- Synchronized Planning
- Intelligent Supply
- Smart Operations
- Dynamic Fulfillment

https://dcm.ascm.org/



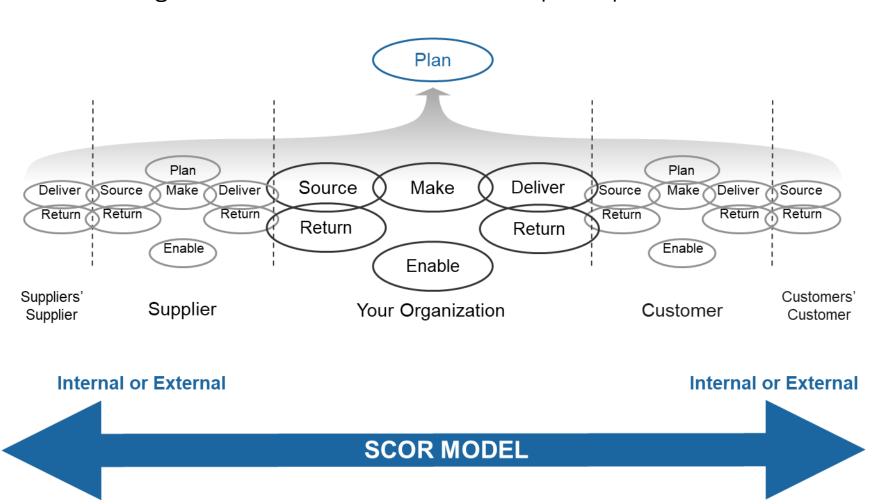


SCOR Digital Standard

Standardizing processes to increase system functionality as the first step toward digital transformation

SCOR is the Global Standard in Defining Supply Chains

Over 5000 organizations have used SCOR to develop their process baselines







The New SCOR Digital Standard

Features

- Compatible with the Digital Capabilities Model (DCM) for supply networks
- Integrated, digital platform
- Mobile friendly
- Special applications downloads for sustainability and ontology
- New practice groupings by technology, process, and organization







Processes

Performance

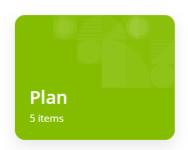
People

Practices

Special Applications and Resources

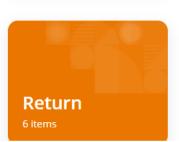


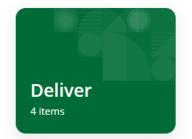
Plan Source Make Deliver Return Enable











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Introduction to Processes

A process is a unique activity performed to meet predefined outcomes. The SCOR processes are those that a supply chain must execute in order to meet its primary objective of fulfilling customer orders. For each unique process, SCOR only has one representation.

SCOR recognizes 6 major processes — Plan, Source, Make, Deliver, Return and Enable — which are referred to as level-1 processes.

Plan

The Plan processes describe the activities associated with developing plans to operate the supply chain. These include determining requirements, gathering information about available resources, balancing requirements and resources to determine planned capabilities and gaps in demand or resources, and identifying actions to correct these gaps.

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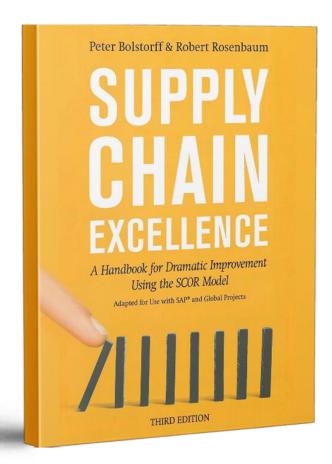




Use Case Supply Chain Planning

Use Case Checklist

- 1. SCORmark Benchmark page 90
- 2. Project Portfolio page 127
- 3. SCOR Level 3 Current State Blueprint page 181
- SCOR Process, SAP Modules and Transactions Table – page 190
- SCOR Level 4 Future State Blueprints page 200
- 6. Sample of SAP based SCOR Level 4 Blueprints separate attachment





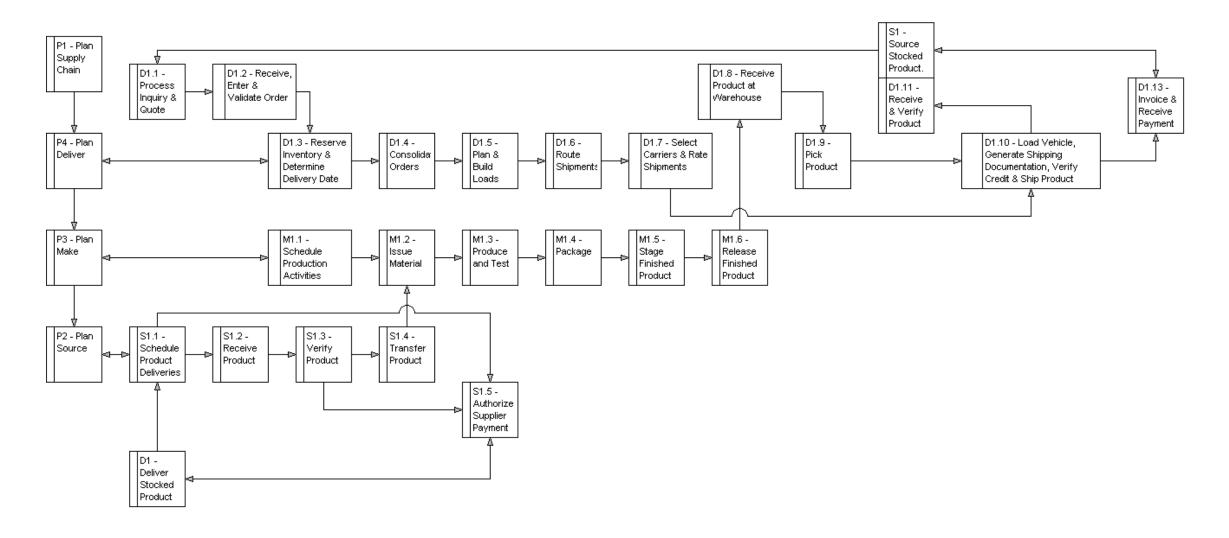
SCORmark Benchmark

SCOR metric analysis identifies improvement opportunities aligned to customer satisfaction and business value.

	Attributes	Metrics	Parity	Advantage	Superior	Target Level Performance	Your Org.	Gap to Target
Customer Facing Metrics	Reliability	Perfect Order Fulfillment (%)	77.5% 🛦	85.6%	93.7%	Advantage	69.2%	16.4%
	Responsiveness	Order Fulfillment Cycle Time (days)	9.1	6.5 ▲	3.9	Parity	7.1	-
	Agility	Supply Chain Flexibility (days)	45.0	33.0	21.0 🛦	Adventage	15.0	-
		Supply Chain Adaptability (%)	30.5% ▲	51.3%	72.0%	Advantage	10.0%	41.3%
Internal Facing Metrics	Cost	Total Supply Chain Management Cost % Revenue	8.7% 🛦	5.6%	2.4%	Superior	8.1%	-5.7%
	Asset Management Efficiency	Cash to Cash Cycle Time (days)	55.4 ▲	30.5	5.5	Parity	160.5	-105.1



The SCOR Blueprint





SCOR Process Impact by SCOR Metric

Based on project portfolio results of 90 SCOR based transformation programs from 30 companies across 6 industries over a 12-year span. XX denotes highest impact.

Strategic Focus Area		Revenue (\$)	Perfect Order Fulfillment (%)	Order Fulfillment Cycle Time (days)	Upside Supply Chain Flexibility (days)	Total Supply Chain Management Cost (\$)	COGS (\$)	Inventory (\$)
1	Demand Management and Forecasting		Χ					X
2	Supply Management Practices				X		XX	X
3	ERP and Advanced Planning System Utilization					X		
4	Data Integrity and Information Management		X	X	X			
5	Supplier Flexibility				XX	X	Χ	X
6	Integrated Product Life Cycle Management		X		X		X	XX
7	Integrated Sales and Operations and Tactical Planning	XX	X	X		XX	Х	XX
8	Efficiency and Effectiveness of the Physical Supply Chain Network			XX		XX		X
9	Order Management Discipline		XX	Х		X		Χ
10	Return Management					X		X
11	Inventory Control Practices		Х					X
12	Manufacturing Flow			X	X		XX	

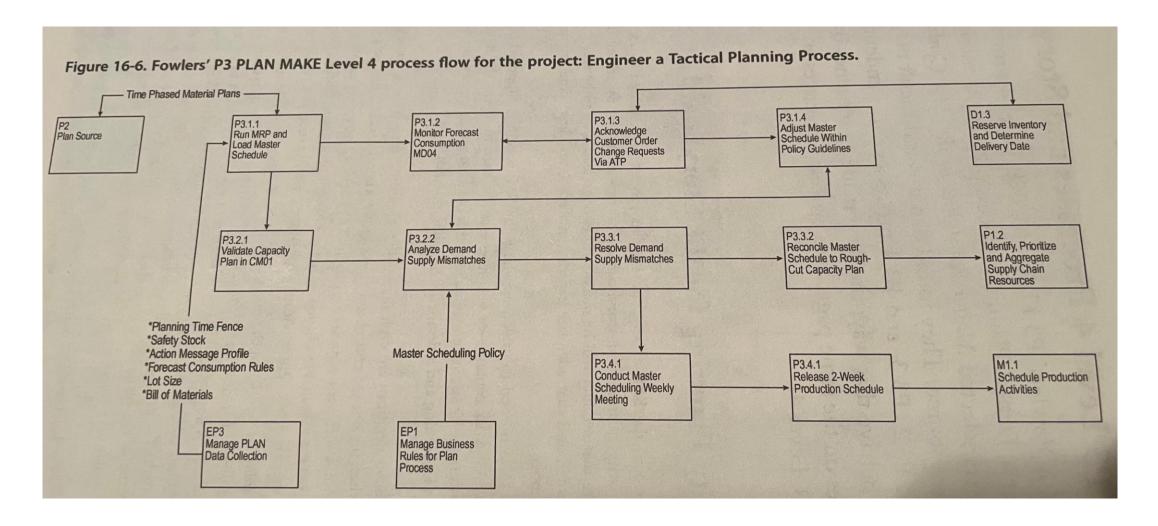


Sample SCOR Processes, SAP Modules, and Transactions

SCOR	Level 3 Element	SAP Module	Common SAP Transaction Codes
P1.3	Balance Supply Chain Resources with Supply Chain Requirements	Materials Management	CM01
P2.3	Balance Product Resources with Product Requirements	Production	CM01
S1.1	Schedule Product Deliveries	Production	CM29
S1.2	Receive Product	Production	MIGO, MB31
S1.4	Transfer Product	Production	MB1B
M1.1	Schedule Production Activities	Production	CM29
M1.2	Issue Product	Production	MIGO
M1.3	Produce and Test	Production	MB1C - receipt only
M1.4	Package	Production	MB1C
M1.5	Stage Product	Production	MB1B
D1.1	Process Inquiry & Quote	Sales and Distribution	Inquiry: VA11, VA12. VA13; Quote: VA21, VA22, VA23
D1.2	Receive, Enter & Validate Order	Sales and Distribution	VA01, VA02
D1.3	Reserve Inventory and Determine Delivery Date	Sales and Distribution	Within sales order processing VAO1 or VAO2 or via backorder processing COO6 or via rescheduling V_V2
D1.8	Receive Product at Warehouse from Source or Make	Sales and Distribution	MIGO, MB31

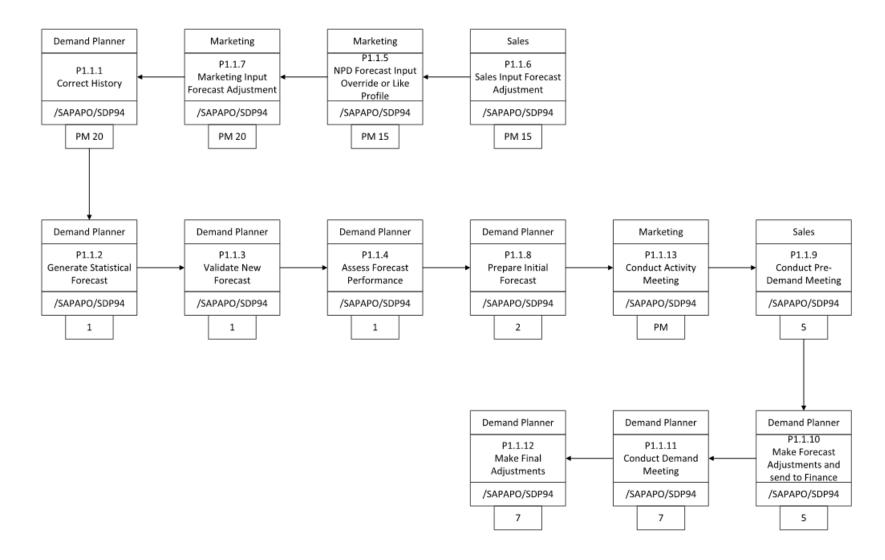


SCOR Level 4 To Be Blueprint for Plan Make





Sample – Level 4 Process for P1.1





Results

30% FASTER ERP system implementation with 30% more functionality and reduced implementation cost





Questions



Thank You

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