

Business Applications supporting Supply Chain Management (SCM)

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Who I Am

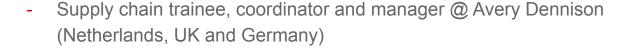




















Who We Are

Avery Dennison is a global materials manufacturer of branding and information labeling solutions and functional materials for consumer goods, apparel, food, logistics, industrial and healthcare industries.

Number of employees worldwide

More than 32,000

Operations in more than

50 countries

Sales in 2020

\$7 billion

Fortune rank as of the end of 2020

435



Our Businesses at a Glance



Label and Graphic Materials

- Label and Packaging Materials
- Graphics Solutions
- Reflective Solutions



Retail Branding and Information Solutions

- Tickets, Tags, Labels, and Embellishments for Retail Apparel
- Radio-Frequency Identification
- Printer Solutions



Industrial and Healthcare Materials

- Performance Tapes
- Adhesives
- Fastener Solutions
- Medical Solutions

2020 SALES

\$4.7 bil.

\$1.6 bil.

\$626 mil.



Our Competitive Advantages

- Global scale; ~190 operating locations
 Recognized industry leader with a global footprint, including a strong presence in emerging markets
- Innovative materials science capabilities;
 vertically integrated in adhesives
- Innovative process technology
- Operational and commercial excellence
- Industry-leading innovations enabling functionality and sustainability



Avery Dennison Coating Machines



Avery Dennison Products



Avery Dennison End Products



Avery Dennison End Products



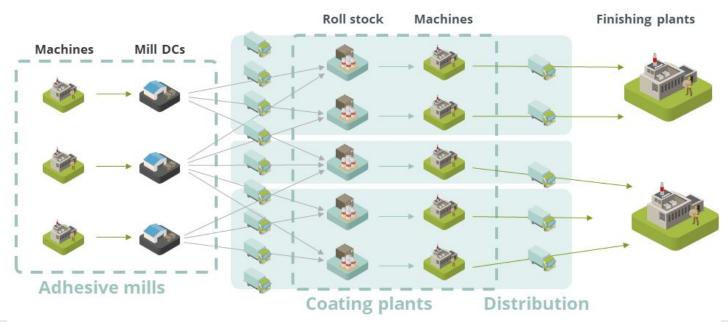






What is SCM @ Avery Dennison

Supply-chain management has been defined as the "design, planning, execution, control, and monitoring of supply-chain activities with the objective of creating net value, building a competitive infrastructure, leveraging worldwide logistics, synchronizing supply with demand and measuring performance globally"



"Make to Order" Fulfillment Example



- A Customer in Ireland Orders a Speciality
 Product which requires Manufacturing
- The main manufacturing step (coating) can only be done in our french Factory in Champ-sur-drac
- All shipments into the Irish market are consolidated through our main Logistics hub in Athus
- The final manufacturing step (finishing) is done in the local Distribution Center in Dublin
- The final delivery to the Customer will be a small delivery vehicle to southern Ireland

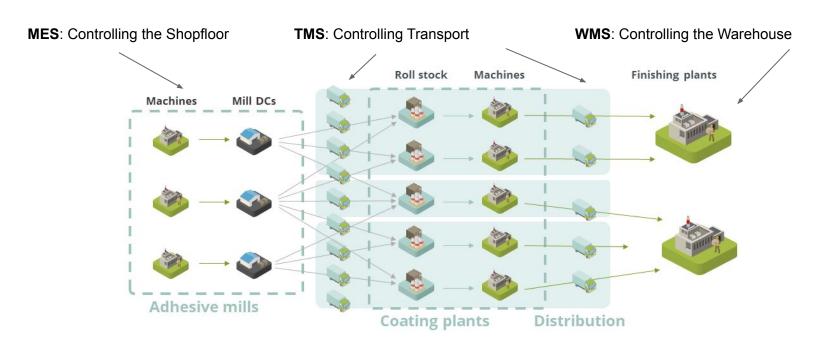


Stakeholder Questions towards the Supply Chain (Current state)

- Sales: How many unfulfilled Sales Orders does this Customer have?
- Finance: Are there any outstanding Payments due and what risks are associated with this customers?
- **Procurement**: How much raw material is available in the production site and do we have an alternative approved supplier?
- Operations: When is the Production Planned for and do we require an overtime shift on the weekend?
- Quality: We received a Quality claim from the last production. Are there any other impacted Customers?
- Trade Compliance: Are deliveries travelling through the UK or will they travel by boat and stay within the European Union?

Digital Twin of the Current Supply Chain

Central ERP - Central System of Record



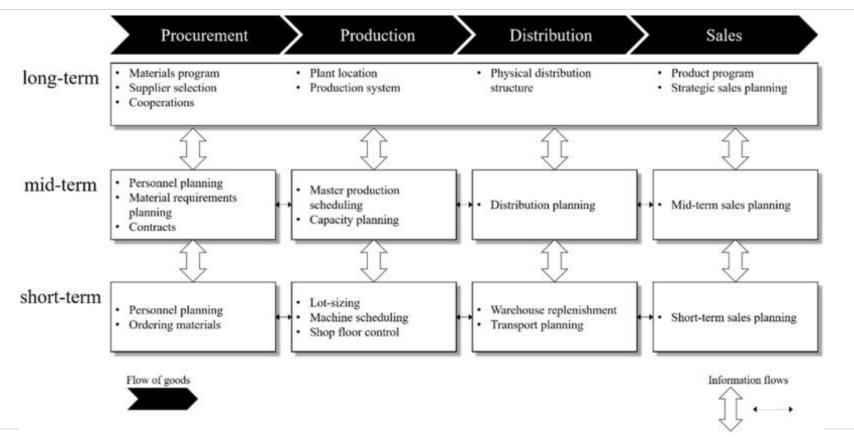
Monitoring and Responding to Deviations in the Supply Chain

- EDW
- KPI Reporting
- Alerts
- Deviations

Stakeholder Questions towards the Supply Chain (Future state -> Planning)

-	Sales:
-	Finance:
-	Procurement:
-	Operations:
-	Quality:
-	Trade Compliance:

SCM Planning Matrix

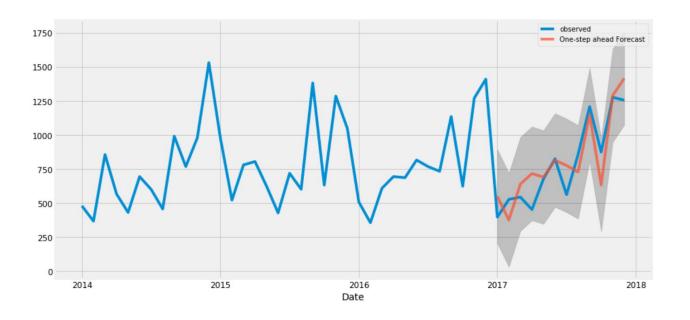


Typical SCM Systems: Network Design

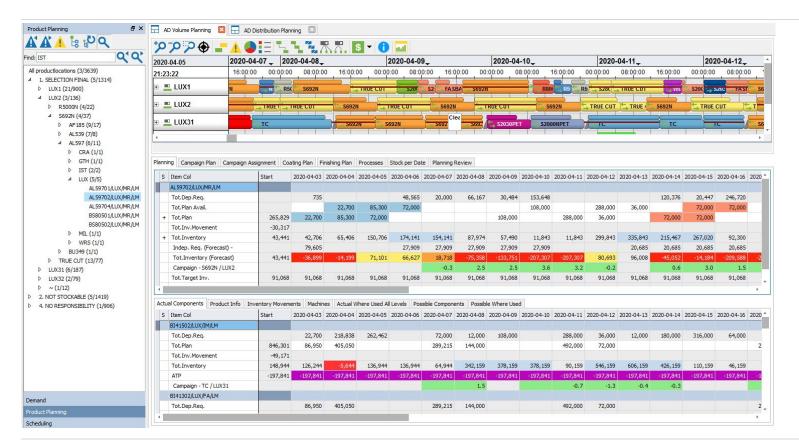




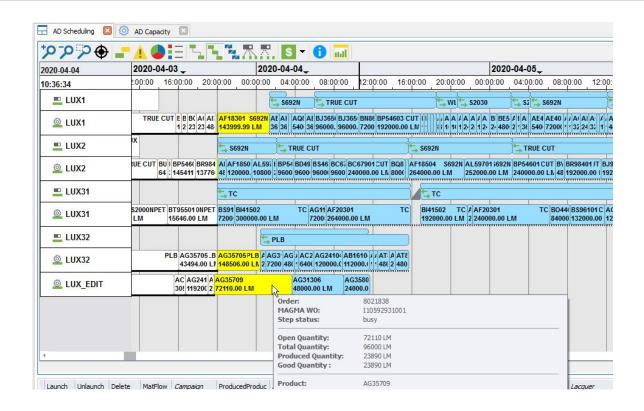
Typical SCM Systems: Forecasting



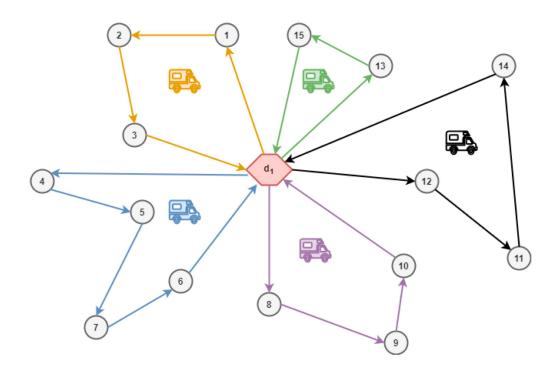
Typical SCM Systems: Supply Planning



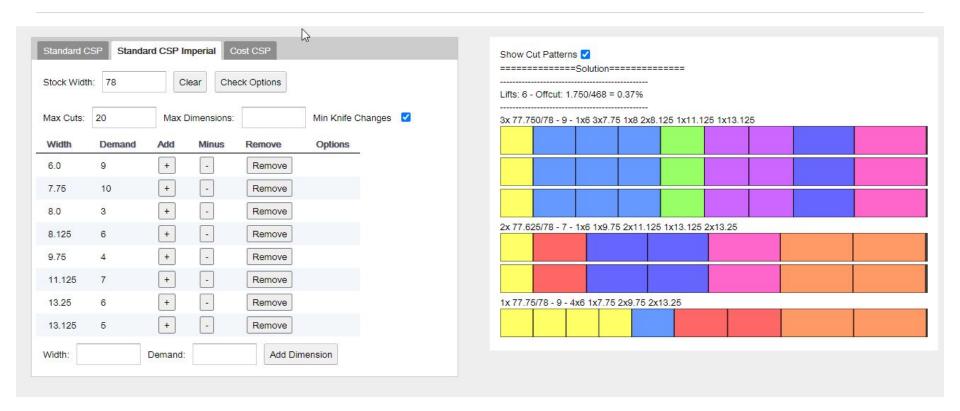
Typical SCM Systems: Detailed Scheduling



Typical SCM Systems: Transport Planning



Typical SCM Systems: Industry Specific Systems



Key takeaways

- SCM: design, planning, execution, control, and monitoring of supply-chain activities
- Create a Digital twin of the current state of the Supply Chain
- Plan and orchestrate the future Supply Chain
- Differentiate between short, mid and long term planning
- Specific Algorithms and Solutions for different planning problems



