Accounting and profitability

Projects and investing



Production as a part of value chain

Production processes and production control

Production systems and organizations

Creating value

Production as a part of value chain

Case-examples





- IKEA's supply chain
 - Business idea and strategy
 - Structure and management of a supply chain
 - Demand forecasting and inventory management
 - Supply chain integration



- IKEA's supply chain
 - Business idea and strategy
 - Structure and management of a supply chain
 - Demand forecasting and inventory management
 - Supply chain integration

Supply chain management: IKEA





Business idea

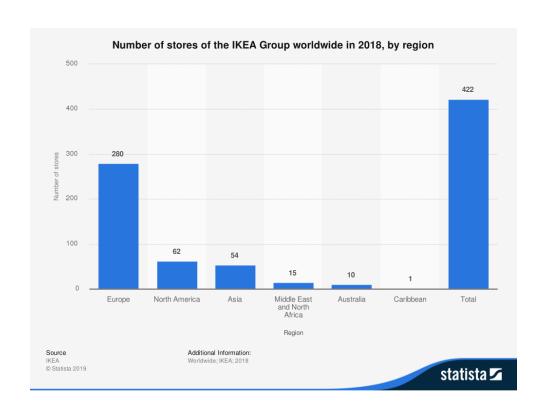
"To offer a wide range of well-designed, functional home furnishing products at prices so low that as many people as possible will be able to afford them"

- Business idea of IKEA



IKEA's department stores and distribution centers

- A total of 422 department stores worldwide in 2018
 - 280 in Europe
 - 62 in North America
 - 54 in Asia
 - 15 in Middle East and North Africa
 - 10 in Australia
 - 1 in Caribbean
 - In addition, the company has several distribution centers, that deliver products to department stores and customers





IKEA's strategy

- Global expansion and profit maximization
- Providing quality products at cheap prices
- A wide range of products
- Avoiding waste and mistakes in operations

Implementing the strategy requires effective supply chain management

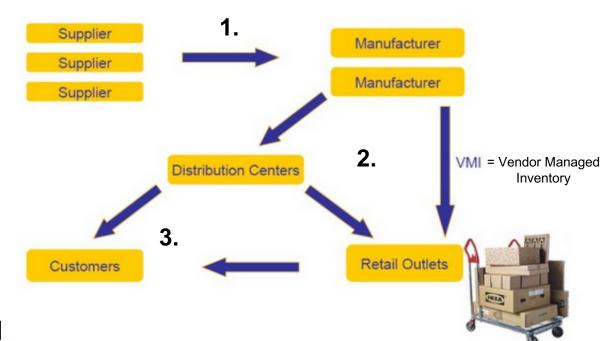




- IKEA's supply chain
 - Business idea and strategy
 - Structure and management of a supply chain
 - Demand forecasting and inventory management
 - Supply chain integration

Supply chain structure

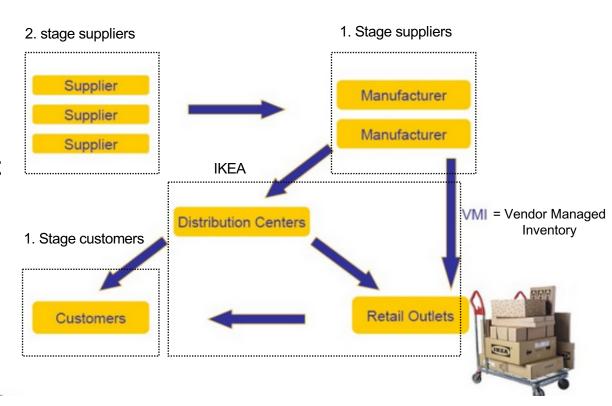
- Raw materials go from raw material suppliers to product manufacturers
- 2. Finished products are shipped to department stores or distribution centers
- 3. Customers either buy products from department stores or get them home delivered





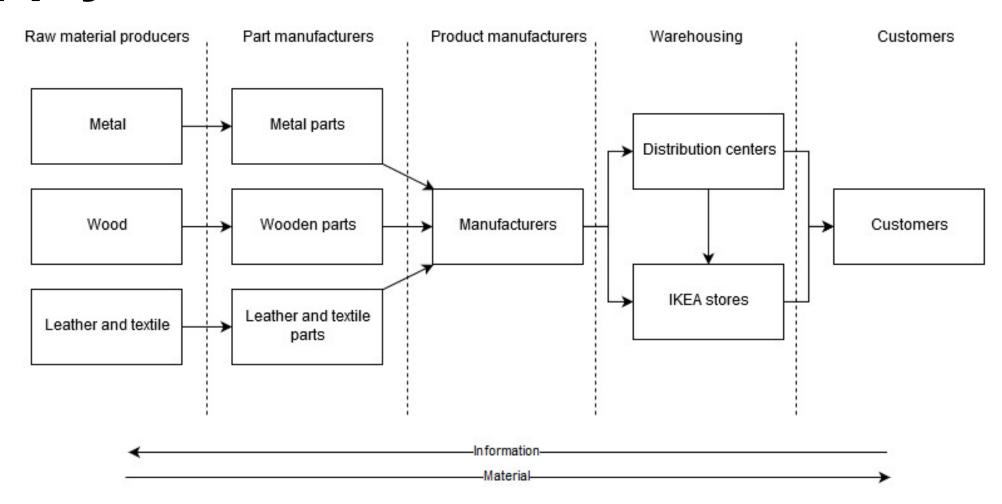
Supply chain structure

- The supply chain can be divided into different stages according to suppliers and customers
- The products consist of many different parts
- Suppliers in 55 countries





Supply chain structure



Supply chain management

Right to products

- Resale under the full control of IKEA
- Holdings in suppliers
- The ability to influence suppliers' decisions

Cooperation agreements with suppliers

- Ensuring availability of raw materials and products
- Effective communication (lesser bullwhip-effect)

Centralization of operation planning

- Long-term planning of operations
- Implementation of ERP system(Enterprise Resource Planning)





- IKEA's supply chain
 - Business idea and strategy
 - Structure and management of a supply chain
 - Demand forecasting and inventory management
 - Supply chain integration

Demand forecasting

- IKEA has over 9500 different products
 - Accurate demand forecasts are essential
 - Use of "Make-to-Stock" method is mandatory
 - IKEA utilizes sales statistics, seasonal information, and algorithms to forecast demand
 - The impact of market changes must be considered in advance
 - Advertising, price changes and new products also affect product-specific demand
 - Algorithms automate demand forecasting and find correlations between demand influencing variables



Demand forecasting

- Estimates are based on data collected by regional service centers
 - Top-Down and Bottom-Up –methods
 - Forecasts are corrected using a moving average
- Demand forecasts can be passed on upstream of the supply chain
 - "One set of numbers" principle



Inventory management

- Demand forecasts help minimize over-storage
 - Accurate demand forecasts are important because it may take up to 8 weeks for products to be in storage
 - If the products run out of stock, sales will be lost
 - At the same time, excessive storage should be avoided
 - Availability of certain products is more important for sales and customer experience





- IKEA's supply chain
 - Business idea and strategy
 - Structure and management of a supply chain
 - Demand forecasting and inventory management
 - Supply chain integration

Supply chain integration

- IKEA's supply chain can be considered partially vertically integrated
 - Ikea does resale and storage
 - Collaboration agreements and partial ownership of suppliers
- IIKEA has contact with end-customers and is able to gather information about customer requirements
 - Information can be passed on to suppliers
 - Customer feedback can be used to make changes in products
 - The result is better customer quality



Assignment 4:

Production as a part of value-chain

- 1. Focus of own operations and procurement(1-2 pages)
 - What parts of production and other operations would you do yourself and what would you outsource and why?
 - Examine the implementation of production, particularly through core competence and cost.
 - How should you procure outsourced services and production parts, as well as the necessary raw materials and equipment for your own production?
 - What are the parts of your supply chain?

2. Demand assessment (2 pages)

- What kind of fluctuation in demand is expected?
- How do you make production and the supply chain such that it can withstand fluctuations in demand?
- Estimate quarterly demand for the first two years and yearly for years 3 and 4
- A table/chart would be useful
- How will demand develop over time?
- Consider the reliability of your demand forecast



Assignment 4: Production as a part of value-chain

- Return the assignment as a PDF to MyCourses
- Deadline: Monday 12 October, 18:00
- Remember to give feedback:
 - 1. How long did it take to do the assignment?
 - 2. What new did you learn?
 - 3. What should be developed in this exercise?
 - 4. General comments on the course so far?
- Next week we will discuss projects and investing

