

Important Information

Reminor: on Thursday, September 17, 2015
 between 2:00 – 3:00 pm at 3 LT1



SCM Example: McDonalds India (Jan 2013)

command instant recognition in virtually every country of the world



- has more than 33,000 restaurants in over 118 countries, serving around 67 million customers
- present in 40 cities in India with around 250 restaurants serving 6.5 lakh customers everyday
- SCM network in India is:
 - Completely outsourced
- growth rate in India is 30% 40%
- first restaurant opened in 1996; research teams took 6 years from 1990 to layout the operations

http://indianresearchjournals.com/pdf/APJMMR/2013/January/10.pdf

McDonalds Supply Chain in India

- food ingredients are supplied by:
 - Tier 1 Suppliers

14 core suppliers provide processed food e.g. vegetable and chicken patties from Vista Processed Foods Pvt Ltd, French Fries, potato wedges and hash browns from McCain Foods India Pvt Ltd

- Tier 2 Suppliers
 growers and producers who provide lettuce, potato and poultry items to tier 1
 suppliers for processing
- fleet of special trucks transport the processed food to the company's distribution centres (DC); these are multi-temperature and single temperature trucks; 2 side doors apart from a rear door in trucks so that products can be unloaded without disturbing other temperature zones
- 4 DC cater to the needs of 250 restaurants; every new restaurant is handled by these within 10 days
- primary DCs (Noida and Mumbai) are owned by the company; other 2 (Bengaluru and Kolkata) are leased
- system used to manage link between restaurants and DC's is hub-and-spoke model where DC's act as hub

http://indianresearchjournals.com/pdf/APJMMR/2013/January/10.pdf

McDonalds Supply Chain in India

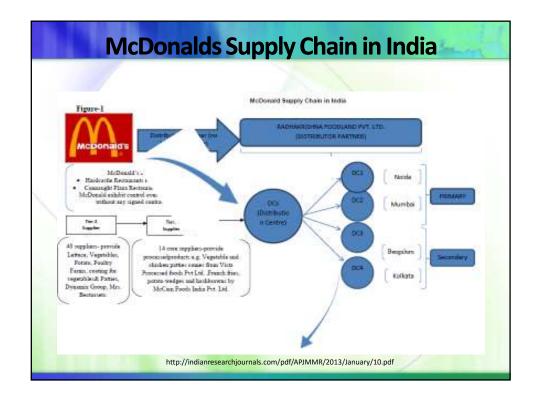
- transportation is completely outsourced and with 80% refrigerated truck movement, company has a dedicated fleet
- 100% outsourced -> rarity in industry giants
- principle followed is trust and collaboration between brand, owners or operators and suppliers
- complete control over its functioning; performance of outsourced companies and DC's are monitored using Key Performance Indicators:
 - administration efficiency
 - · the total number of cases managed per man hour,
 - warehouse efficiency,
 - overtime as a percentage of the total number of hours worked and in the case of transportation,
 - · the number of cases handled per trip,
 - truck utilization, etc.
- no legally signed agreements with suppliers; "one-product-one supplier" policy

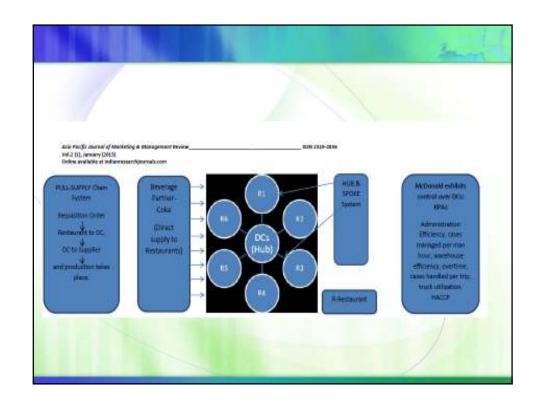
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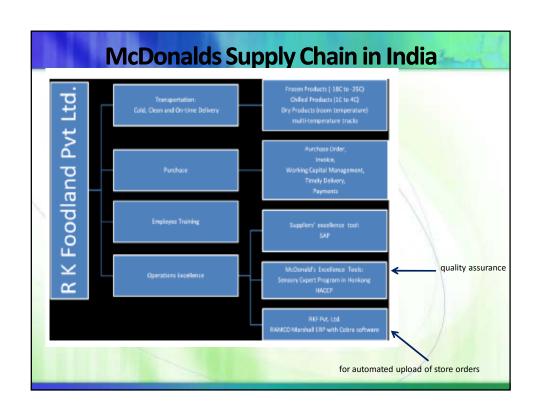
McDonalds Supply Chain in India

- has only one distribution partner in India, Radhakrishna Foodland Pvt Ltd; RKFL manages 4 DCs and control the transportation logistics all over India
- manages daily activities of McDonalds like raising purchase order to suppliers, invoicing, timely delivery, payments etc
- except bun and coke, everything is sourced directly from RKFL; buns are send directly to the outlets to preserve freshness and Coca-Cola has its own supply network
- "pull-supply" strategy
 - restaurant -----→ Distribution centre -----→ suppliers produce only on demand (made to order).
 - supplier barely maintains extra stock except if there is contingency like machine servicing or overhaul
- demand forecasting is done using 31Q concept
 - → 3 stands for 3 years that the fast food chain will keep checking its plans
 - 1 means forecasting for the next year
 - Q means quarterly monitoring of these forecasts
- demand forecast by restaurants to DC is from 3 days to 1 week and DC's has 3 month forecast with the suppliers

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SCM Example: McDonalds (global)

Earlier Practice

- stock ordering was the responsibility of individual restaurant managers
- they ordered stock using their local knowledge or using historical sales data
 - For example, if last week's sales figures showed they sold 100 units of coffee and net sales were rising at 10%, they would expect to sell 110 units this work
- simple method and involved no calculations to take account of factors such as national promotions or school holidays
- took up a lot of the Restaurant Manager's time, leaving them less time to concentrate on delivering quality food, service and cleanliness in the restaurants

New System

- In 2004, McDonald's introduced a specialist central stock management function known as the "Restaurant Supply Planning Department"
- this department regularly communicates with restaurant managers to find out local events
- The team incorporates these factors into the new planning and forecasting system (*called Manugistics*) to forecast likely demand of finished menu items (e.g.Big Macs)

Case study: Amazon.com

Inside Amazon: Secrets of an Online Mega-Giant

(https://www.youtube.com/watch?v=zknLfU7GJIw)



Supply Chain: Top 5 in 2015

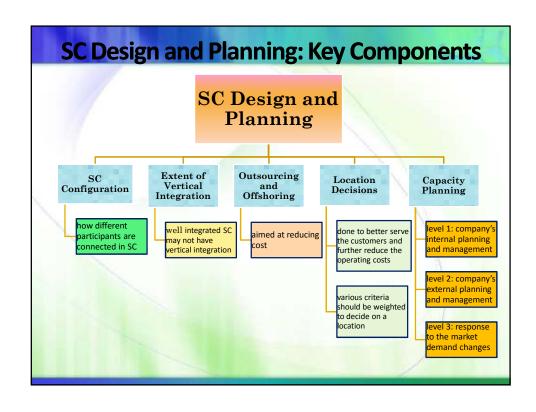
according to Gartner report:

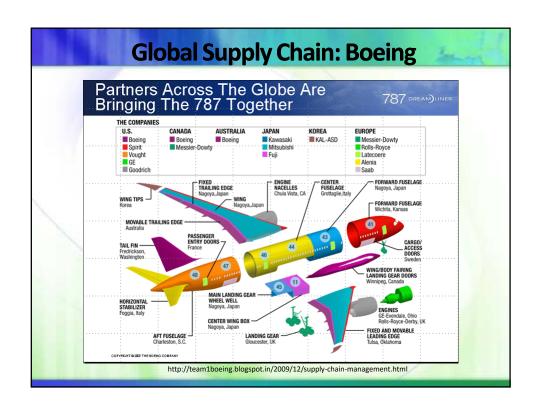
2015 ranking	Company
1	Amazon
2	McDonald's
3	Unilever
4	Intel
5	Inditex

http://www.industryweek.com/top25supplychains2015#slide-20-field_images-167391

Supply Chain Design and Planning

- most important issue
- planning the SC architecture that every participant adds value
- management challenge is to maximize the value added in the SC at the minimum cost





Supply Chain: Case Study Video

"Penske Logistics and Ford Motor Company's European Supply Chain Case Study"

(https://www.youtube.com/watch?v=KWABT48wTFw)



Supply Chain Management: Challenges

- Matching Supply and Demand
 - Raw material shortages, internal and supplier parts shortages and productivity inefficiencies led to Boeing Aircraft's inventory write-down of \$2.6 billion
- Fluctuations of inventory and backorders throughout the Supply Chain
- unforeseen events
 - August 2005 Hurricane Katrina
 P&G coffee supplies from sites around New Orleans created six month impact
 - 2002 West Coast port strike
 Losses of \$1B/day; Store stock-outs, factory shutdowns
 - 1999 Taiwan earthquake
 - Supply interruptions of HP, Dell
 - 2001 India (Gujarat state) earthquake
 Supply interruptions for apparel manufacturers
- creating customer-centric supply chains
 - shift from supplier-centric to market centric, more agile towards customer needs
- managing supply networks
 - manage whole supply network as an integrated unit
- adapt to structural, technological and relational changes