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1	Supply Chain Management in Garments Industry
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4	Received: 8 December 2013 Accepted: 31 December 2013 Published: 15 January 2014

6 Abstract

The term ?supply chain management? has become a popular buzzword, probably first used by 7 consultants in the late 1980s then analyzed by the academic community in the 1990s. if one 8 wants a simple definition, supply chain management links all the supply interacting 9 organizations in an integrated two-way communication system to manage high quality 10 inventory in the most effective efficient manner. The supply chain management reflects those 11 actions values responsible for the continuous improvement of the design, development 12 management processes of an organization?s supply system, with the objective of improving its 13 profitability ensuring its survival, as well as the profitability survival of its customers 14 suppliers. A firm?s supply system includes all internal functions plus external suppliers 15 involved in the identification fulfillment of needs for materials, equipment services in an 16 optimized fashion. Supply management lays the foundation for, and is the key to, successful 17 supply chain management. Meanwhile, to execute order properly we have included supply 18 chain management. We identified these supply chain areas from my own observation managers 19 may apply analysis or decision support tools. We provide a brief description of the basic 20 content mention likely operations research based tools to aid in analysis decision support. As 21 a merchandiser it is so important to know the supply chain management to control the 22 merchandising system he/she must have proper understanding about the whole supply chain 23 management to ensure smooth handling the merchandising movement in order to succeed the 24 merchandising plan. That is why my total dissertation basically based on the relationship 25 between supply chain management merchandising department which can able together to 26 supply an outstanding feedback for the apparel industries. 27

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29 Index terms— SCM, four phases of SCM, issues in SCM.

30 1 Introduction

supply chain consists of all parties involved, directly or indirectly, in fulfilling a customer request. The supply chain includes not only the manufacturers and suppliers, but also transporters, warehouses, retailers, and even customer themselves. Each stage in a supply chain is connected through the flow of products, information and fund. These flows often occur in both directions and may be managed by one of the stages or an intermediary. Here we can see raw materials supplier supply industrial product to the manufacturer, and make the product sale to distributor, distributor sale this product to the retailer by small lot, and final consumer get the product from the retailer.

³⁸ 2 Supply chain stages:

Raw material supplier Manufacturer Wholesaler/distributor Retailer Customer Figure ??: An example of supply
 stage.

Practices experienced in the traditional management of the supply chain raised the need for conversion to a 41 new paradigm of supply chain management (SCM). The traditional supply chain and manufacturing processes 42 relied on experience and intuition of managers and were designed with long supply cycle times, large batch sizes, 43 capacity based on annual volumes, volume-driven technology, and numerous suppliers for the same parts on 44 the short-term base contracts. With traditional management processes, the goal of business activities was to 45 maximize the efficiency of an individual functional unit by achieving competitive edges based on cost reduction. 46 SCM is designed to solve these problems and is important to reduce inventory investment in the chain, to increase 47 customer service, and to help build a competitive advantage for the channel. With a changing management focus, 48 companies also began to realize that maximization of efficiency in one department or one functional unit is less 49

50 desirable than optimal performance for the whole company.

51 **3 II.**

52 4 Reasons For Forming Supply Chain Management

The four phases of supply management all require many perspectives & inputs best obtained through a crossfunctional approach. These four phases of supply management are as follows: Supply chain management is divided into three levels of decision making. And the use of metrics to evaluate supply chain performance is described.

57 Supply chain management decisions are often said to belong to one of three levels; the strategic, the tactical,

or the operational level. Since there is no welldefined and unified use of these terms, this Section describes the
how they are used in this thesis.

Figure ?? 5 shows the three levels of decisions as a pyramid shaped hierarchy. The decisions on a higher level in the pyramid will set the conditions under which lower level decisions are made. Inventory management is one aspect of SCM. The main goal of SCM is to better manage inventory throughout the chain via improved information flow aimed at improved customer service, higher product variety, and lower costs and used the term

⁶⁴ "Networked Inventory Management" (p.16) for the inventory aspect of SCM.

65 When customers are trying to operate on fewer inventories, manufacturers can respond in two ways:

1. Carrying more inventories to compensate for the shorter lead times. 2. Improving the management of the supply chain.

68 III. The Four Phases of Supply Management IV. Issues in Supply Chain Management V.

69 Decisions on Three Levels VI.

70 Metrics and Data Collection VII.

⁷¹ 5 Inventory Management in The Supply Chain

72 As shown in Figure there are three inventories in the model: The raw product inventory (RPI), the work in process (WIP), and the finished goods inventory (FGI). The RPI is the inventory for incoming parts ready to 73 enter assembly, the WIP are the products that are in the assembly, and in the FGI we find the finished products 74 ready for shipment to customers. A safety stock is the stocking level desired at any time for a given part in a 75 given inventory. Holding inventory is costly and the ideal situation would therefore be to have no parts in stock 76 when they are not immediately needed. In the real world however materials and production planners meet many 77 uncertainties. A safety stock superior to zero is therefore in general required for the RPI and FGI. Figure shows 78 a timeline for the material flow in the Simple Model. Week 0 on the line is set to the week when a customer order 79 arrives. To build a customer order, parts of index 1 (14 weeks lead time) must be ordered 13 weeks prior to the 80 arrival of the order. Parts can enter assembly instantaneously when they arrive in the RPI. The figure shows an 81 assembly time of two weeks. Once out of assembly, the products enter the FGI, from where they are shipped to 82 customers. Products are ready for shipment the moment they enter the FGI. Transport time to customer is one 83 week. The plant quotes an order to delivery time of 4 weeks. 84

Since materials orders must be ready up to 13 weeks prior to the arrival of orders, it is impossible for the 85 company to base the materials planning on incoming orders. A demand forecast is necessary. The demand 86 forecast gives the expected product quantity ordered for a set number of weeks. In the model we assume the 87 forecasted demand to be as is shown in Fig Figure ?? : Issuing a Demand Forecast. TIME-TO-MARKET: In 88 these short life-cycle markets, being able to spot trends quickly and to translate them into products in the shop in 89 the shortest possible time has become a pre-requisite for success. TIME-TO-REACT: Ideally, in any market, an 90 organization would want to be able to meet any customer requirement for the products on offer at the time and 91 place the customer need them. Clearly, some of the major barriers to this are those highlighted in the previous 92 paragraphs, i.e. time-to-market and time-toserve. However, a further problem that organizations face as they 93 seek to become more responsive to demand is that they are typically slow to recognize changes in real demand 94

95 in the final market place.

96 6 VIII.

97 Time And Material Flow IX.

Issuing A Demand Forecast Table ?? provides an indication of the size of these losses and of note is the cost of carrying inventory. The biggest item is forced markdownsmainly at retail -with the total losses amounting to over 14% of retail sales. A distinction is made between promotional markdowns, e.g., special sales, and the marking-down that occurs out of necessity when a season ends and unwanted goods must be moved to make way for new merchandise -forced markdowns.

103 7 QUICK

RESPONSE AND OFFSHORE SOURCING: As highlighted earlier, consumer demand is becoming more volatile. 104 QR is designed for such an environment. The fashion industry is, perhaps, one of the most demanding challenges 105 for logistics management with hundreds of colours, thousands of styles and millions of SKU's on the retail shelves 106 at any one time. Further, the average shelf life of these merchandise items shortens with each passing year. A 107 key factor in the value of QR is its ability to deal with uncertainty or variance. There are numerous sources of 108 uncertainty in a fashion supply pipeline starting with demand through to the reliability on the part of suppliers 109 and shippers, etc, and Quick Response offers the ability to counter the negative impacts of uncertainty. In 110 this initial scenario two possible buying decisions are reviewed using QR and then offshore sources of supply. 111 First, end-consumer purchases, whether bought from a retailer or manufacturer, are assumed to be one hundred 112 thousand pounds. It is then assumed that the customer (a manufacturer or retailer) has bought the goods for 113 the same price ($\pounds 60k$). An averaged gross margin is also assumed of 40% on these sales. The only difference 114 between the two sourcing alternatives is the flexibility and speed of response. The ability of the QR supplier 115 to rapidly replenish the stock of the customer (manufacturer or retailer) to real-time consumer demand allows 116 the customer to turn inventory of the product 6 as opposed to 2.5 times a year. This faster turnover rapidly 117 increases the customer's gross margin return1 on each pound invested in inventory from £1.67 to £4.00, more 118 than twice that of the offshore competition. Because of this inventory turnover advantage the manufacturer or 119 retailer could afford to pay a premium for the product and still get a better return (Table ??). 120

In the table the price paid for goods by the customer has increased by almost one-third, but because of the flexibility and responsiveness of the supplier, the return on inventory has increased by 1.2 percent or from 167% to 169%. Table ?? views the sourcing decision from another perspective. The decision to move sourcing offshore to a competitor with lower unit cost but a slower response

In this situation the foreign supplier would need to reduce the purchase price by nearly 35% to retain a comparative GMROI to that of the QR supplier. The more flexible and higher velocity supplier proves more competitive than the lower-cost; even without taking into account the other hidden and inflexibility costs.

Table ?? shows the shows the combined effect of velocity, faster inventory turns and reduced markdowns. As product velocity increases so too will revenue as there is less need to sell goods below optimum price points. The customer's (manufacturer or retailer) return on investment grows to over 3-times that of a competitor.

Finally, Quick Response also has an impact upon strategic pricing decisions. Velocity and flexibility in the supply system will allow an original equipment manufacturer (OEM) or retailer to reduce the price of the finished good below that of the competition and capture greater market share.

This paper has provided a conceptual focus upon the main logistical issues involved in fashion retailing. The peculiar nature of the industry was discussed in terms of its volatility, complexity and dynamism. It is with these factors in mind, that the need for agility and responsiveness in the logistics pipeline has been identified.

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Figure 1: ?



Figure 6:







Figure 8: Figure 8:



Figure 9: Figure 9 :



Figure 10: Figure 10 :



Figure 11:

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