# SUPPLY CHAIN MANAGEMENT AND ITS PRACTICAL IMPACT

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Abstract: This paper studied about the role of different independent factors on supply chain responsiveness. Here, we considered factors such as joint decision making, information quality and performance risk as three independent variables and supply chain responsiveness as a dependent variable. We tried to survey different supply chain professionals working in different sectors to have an unbiased image in our study.

After applying Pearson corelation in our study, we understood the significance of our independent variables on supply chain responsiveness. The positive significance shows the importance of these factors while working on our dependent variable. All three relationships are showcasing either positive or strong corelation. Finally, we could infer that there are a lot more factors that we can take in to consideration for calculating the impact on supply chain responsiveness in future studies. This will definitely strengthen the case and will help in practical explanation.

Keywords: Supply chain responsiveness, Joint decision making, Information Quality, Performance Risk, Pearson Corelation(1 tail).

## 1. Introduction

Supply chain Management underlines the maximization of the total value of the organisation while utilizing and implementing the chain of resources to the whole company .Through a supply chain we can add value to the product while connecting the customers and suppliers in an end to end chain. The supply chain activities involves getting the inbound from the suppliers and add value to it to deliver it to your customers. The chain of supply chain involves manufacturer, suppliers, retailers, warehouses, transporters and customers. All these segments are involved directly or indirectly with the common goal of fulfilling the customer demand. Just like in manufacturing, supply chain also involves all the functions starting from receiving to fulfilling the customer's request. All the functions are Marketing, distribution, customer service, new product development, operation etc. When we talk about the performance factor, it is always helpful to integrate and

manage the information flow in to the supply chain. An effective SCM is always a plus point and works as a competitive advantage in fulfilling customer demand. It is always beneficial to integrate your infrastructure, according to current technology trends. Information technology impact the supply chain effectiveness, integrating in to these technologies will impact various other functions of supply chain management such as, flexibility, delivery, cost, quality and hence forth profit. Developing your infrastructure while using IT will also help in a better ROI and will help in diversification to increase market share. Business strategies always need the support of main functions such as SCM

Procurement, Logistics, Marketing, Finance to achieve the competitive advantage. Integration to IT will definitely help in coordination with Business strategies, which directly reciprocates to the organisations financial performance.

Incrementation in global competition, employees and Customers demand, decreament in acceptable response times and shrinking product life cycles are faced by the organizations in recent times. Competition has a new companion dependent on capabilities or we can say that "complex bundles of accumulated knowledge and skills, exercised through organisational process". Strategic assets such as brand equity, investment in scale and scope plus implementing your assets while competing these days. Companies are now moving towards integrating their processes and not just a collection of functional areas. It has become normal for companies to organize or form competitive networks outside their legal boundaries. Organizations have developed strategically aligned capabilities outside its company to the networks which tends to add value as well. This has led to firms implementing new strategic assets in their business process. As they mature it has been observed that there will be a requirement of development and investment. With a result in process maturity, organisations do have an adoption of process view. When we talk about process lifecycle, it occurs in developmental stages. It has been observed through our limit, on behalf of the procedure which is thoroughly measured, defined, controlled and managed. It

meant development in the areas of consistency and richness, process capability through the whole firm

# 2. Literature Review:

AUTHORS	Definitions		
Dias et al.	SCM is the errand of incorporating		
(2017)	hierarchical units along a gracefully		
	chain and organizing materials, data		
	and budgetary streams to satisfy		
	client requests to improve the		
	intensity of the flexibly chain		
	overall.		
Wibowo et	"Supply Chain Management is the		
al. (2017)	key business measures from end-		
	client through unique providers that		
	gives items, administrations, and		
	data that add an incentive for the		
	client and different partners".		
Skojett-	SCM is observed through numerous		
Larsen	points of view, for example,		
(1999)	framework designing, financial		
	aspects, human science and the		
	executives.		
Dubey et al.	SCM, an idea deals with the		
Dubey et al. (2012)	progression of material, data and		
	progression of material, data and assets start to finish for example		
	progression of material, data and assets start to finish for example goes from manufacturing to selling		
	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages		
	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later		
	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural		
	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to		
	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal		
(2012)	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.		
(2012)  Kain et al.	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an		
(2012)	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an arrangement of associations,		
(2012)  Kain et al.	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an arrangement of associations, individuals, exercises, data, and		
(2012)  Kain et al.	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an arrangement of associations, individuals, exercises, data, and assets engaged with moving an item		
(2012)  Kain et al.	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an arrangement of associations, individuals, exercises, data, and assets engaged with moving an item or administration from provider to		
(2012)  Kain et al.	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an arrangement of associations, individuals, exercises, data, and assets engaged with moving an item or administration from provider to client. Supply chain exercises		
(2012)  Kain et al.	progression of material, data and assets start to finish for example goes from manufacturing to selling individuals. This likewise manages removal in components in later utilization according to natural standards. SCM attempts to accomplish this at the most minimal expense with greatest proficiency.  "Supply Chain is characterized as an arrangement of associations, individuals, exercises, data, and assets engaged with moving an item or administration from provider to		

materials, and parts into a
completed item that is conveyed
to the end client. The
organization of associations that
are included, through upstream
and downstream linkages, in the
various cycles and exercises that
produce an incentive as items

	and administrations conveyed to a definitive buyer".
Walton	SCM the board, reconciliation
and	along different ideas, for example, broadened endeavour, the virtual association, the virtual
Gupta (1999)	worth chain as well as green gracefully chain. The viewpoints are significant with some viewpoint of system and tasks on
	an organisation or industry.
Harjeet et al. (2016)	"Supply chain the board is basically the administration of transport or stream of
	merchandise and ventures, it additionally incorporates capacity, timeframe of realistic
	usability, investigation of products obtained and products sold coordination's, and so on
	Flexibly chain the executives helps in arranging and executing
	different gracefully chain exercises of a specific association
	to develop a net estimation of the association, deciding the current
	market pattern identified with the interest and gracefully of any
	products or administrations and synchronizing the equivalent for
	estimating the presentation of the association".
McCorma	SCM includes measures that
ck	takes companies abilities on
	synchronizing tasks to incorporate originator, and
	convey measures with a joint effort through something which
	accomplices.
Harland (1996)	Supply chain the board coordinates two business
(1770)	capacities, it oversees close
	associations with providers, and
	it likewise incorporates chain of
	provider's providers and a client's clients, etc. It belongs to the
	interconnection of businesses

	with administration that is
	attached in a definitive cycle of
	items with the necessity of
	bundles in administration.
Ellram et	"SCM chain the executives that
al. (2019)	incorporates the arranging and
	the board of all exercises
	engaged with sourcing and
	acquisition, transformation, and
	all coordination's the board
	exercises. Critically, it likewise
	incorporates coordination and
	cooperation with channel
	accomplices, which can be
	providers, mediators, outsider
	specialist organizations, and
	clients.".
Melnyk et	"SCM is essentially liable for
al. (2009)	dealing with the purchasing just
	as dealing with the progression
	of requests and data" is not, at
	this point legitimate. Today all
	the connected viewpoints, for
	example, improving client
	support, relieving flexibly chain
	hazard, diminishing squanders,
	improving new item
	configuration measure and
	upgrading item administration
	quality are treated as a vital
	portion of SCM.
	1

Martins et al. (2019)	"The way toward arranging, executing and controlling the activities of the gracefully affix with the reason to fulfil client necessities as proficiently as could reasonably be expected. SCM executives traverses all development and capacity of crude materials, work-in- measure stock, and completed merchandise from purpose of-
	merchandise from purpose of- beginning to purpose of- utilization".
Chen	SCM simply manages the vital
a	choices, for example, between
nd	hierarchical issues, elective

aulraj (2004)	P	authoritative structure to vertical reconciliation. It is additionally the administration of connection among providers and clients.
Desai	e	"SCM is characterized as the incorporation of key business measures from end clients through unique providers that give items, administrations and data which enhance clients and different partners".

The discourse of SCM discipline is very broad considering its theoretical and methodological scope, while BSCM is a small niche in contrast with relevance to man behaviour for its SCM conditions. That confirms the importance of addressing the term integration in the field of SCM. There is a contention that expands on association speculations to respond to questions: how to structure the supply chain and how to deal with a specific structure and proposed that this can be viewed as an endeavour to reduce the hole between ebb and flow SCM examination and practice and existing hypothetical clear and prescriptive clarifications, this corelates to the diffusion of supplier innovativeness o the supply chain. This model explains importance of examination in SCM with supplier innovativeness relationship. Few of the examples includes strategic sourcing from buyers and information sharing. This captures the impact of supplier innovativeness on SCM effectiveness.

## l. Information quality

Supply Chain Practice can be attained, when IQ can be maintained. Whenever a firm needs to achieve overall business performance, alignment with Information Quality and SCP is needed. Delivery practice and Sourcing practice are some of the supply chain practices which are under investigation. Just having customer forecasts will not be suffice. The quality of information is required in the interpretation and possible use of forecasted data. The measurement of Information quality has to be judged by the receiving supplier and not objectively. Information gathered has to be Concise, accurate and timely. There are various possible ways to measure information quality such as: adequacy, completeness, accuracy, timeliness and reliability. The equation of FIQ is not measured as the deviation between forecast and actual demand but expressed as mean error or mean absolute deviation . FIQ is discussed further as well. Some of the features of FIQ are critical. More exactly, no study of measurement of FIQ was found, general studies are there with some information quality studies

## 2. Joint decision making

Collaboration can be between departments and people as well as between organisations. For example, cases that signifies those points which enables while undertaking the development of logistics, procurement and operations. Decentralized retailers are not preferred by suppliers in real management practices. More market information is always with the retailers as they directly deal with customers. Retailers always have an upper hand over suppliers on this data and they use it to bargain from suppliers. The deciding factor is which end these strategies favour to, the supplier or the retailer. A framework has been developed called as "arcs of integration" which clarifies the extensive customer integration to extensive supplier integration.

## 3. Performance risk

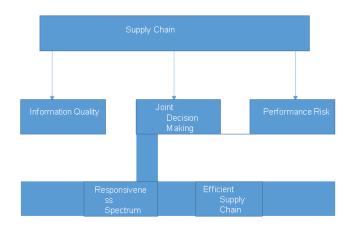
Most fields of management control and decision will have risk management as an emerging and important contributor. Sharing of information involves willingness of exchange possible proprietary or partners. To support integration and having collaborative association in information sharing of SCM data is needed. Reasons why companies are turning towards risk management are technological change, global competition and competitive advantage. Supplier management tools are required to take risks as risk and performance are interconnected and asks for robust implementation. Significance of information sharing has also been mentioned by some of the Japanese companies.

## 4. Supply chain responsiveness

Any organisation needs to have customer responsiveness to gain any kind of competitive advantage. Customer needs and wants also need to have responsiveness at most priority. The frameworks of any supply chain for an organisation is generally different from its literature. The relationship of supply chain responsiveness and its strategy has to be controlled by appropriate supply chain practices. When we talk about lean supply chain, it pertains to reducing costs by implementing continuous improvement techniques and inventory management through its chain. The SCM with its capabilities of adjusting capacity, reduction in set-up time by responding to the customer quickly. Agility is also an important factor in supply chain responsiveness.

## 3. Research Framework

After the extensive literature review, we have formulated a framework. In the figure shown below, we have information quality, joint decision making, performance risk as independent variables and one dependent variable i.e supply chain responsiveness. Responsiveness spectrum and Efficient supply chain are two other factors that are interrelated to all the independent variables



#### 4. Problem statement:

Due to the advancement in technology in the supply chain domain, factors such as Information quality, Joint decision making and performance risk becomes evident to identify the level of supply chain responsiveness. Organizations are not the only one effected from any kind of disruption, the whole industry is affected. Advancements in this sector is on a verge of transformation with supply chain responsiveness becoming main competent area. Our objective in this research is to find out some factors that affect SCM responsiveness.

## 5. Objective:

Our objective is to have a look in to various factors which has an impact on supply chain responsiveness. How much is the impact and its significance? How these factors affect our dependent variable which will help supply chain professionals in future to have an efficient supply chain. The interdependency will help in better supply chain operations.

## 6. Methodology:

Our aim depends on the identification in dependence of SCM responsiveness on the basis of certain factors. The study we've done is an empirical study in which a survey has been done. Individuals with relevant work experience were approached for this survey. Supply chain responsiveness has been an integral part of any operations for a product based company as it directly provides value to the customers. Globally many researches have already been done on this, and many companies have integrated this in their supply chain management. We have surveyed through questionnaires after the literature review. This questionnaire corresponds to various studies done previously to have a standard match of previous studies. We have used

Likert scale as a method to collect responses and collected them through Google forms. Following table describes the references and sub dimensions of our dependent and independent variables

0	T.C:	1/1/01: 1	
0	Informati	1/1 This exchange	
1	on quality	provides a non-outdated	
	(IQ)	data package.	
		2/1 My purpose is	
		always fulfilled with the	
		data that has been	
		exchanged	Andrea
		3/1 The transactional	
		data is always up to date	S
		4/1 The exchange	
		maintains the right data	
		for my purposes	
		5/1 The exchanged data	
		has no accuracy	
		problems	
		6/1 The accuracy of the	
		exchanged data is	
		satisfying	
		7/1 There is no error in	
		this exchanged data	
		8/1 This exchanged data	
		that I use is accurate	
		enough for my purposes	
		9/1 This exchanged data	
		has no missing data	
		items according to my	
		needs	
		10/1 The exchanged data	
		meets my need of work.	
0	Joint	1/2 Contribution in your	
2		supplier sourcing	
		decisions.	Jayara
		2/2 Are you willingly	m,
		collaborating in strategic	Na
		decision making.	chi
		3/2 The willingness of	app
		collaborative problem	an
		solution.	(20
			10)
		4/2 Shared operational	
		decision making.	
		5/2 Surveying your end	
		users for feedback on	D.C.C 1'
		customer service/	Effendi
		performance.	(2015)
		6/2 Making each and	
		every member of your	
		firms supply chain	
		in your	
		marketing	
_			_

		plans/service/product.	
		7/07 1:	
		7/2 Involving yourself	
		in the marketing efforts	
		of your customers.	
0	Performan	1/3 Vendor not operating	
3	ce-risk	well is a risk	
		2/3 The ability to	
		perform as expected by	Andrea
		vendor is a Risk	S
		3/3 Risk of vendor not	
		producing the required	
		products	
		4/3 Risk of vendor not	
		having the required	
		knowledge to execute	
		the order.	
		5/3 The vendor is	
		committed to	
		accomplish	
		the goals of the	
		relationship	
		6/3 The goals of the	
		relationship has to be	
		accomplished by the	
		vendor	

		7/0 D: 1 C 1 C:	
		7/3 Risk of vendor facing	
		performance problems	
0	Supply	1/4 Management of	
4		distant facilities	
		2/4 Track shipments	
		3/4 Reduce the level of	
		paperwork in a supply	Tec
		chain system.	k-Y
		4/4. From	ong
		product/service concept	En
		to introduction we need	g;2
		to achieve or maintain	005
		responsiveness.	
		5/4 Develop	
		innovative	
		new	
		products/services	

## 7. Data statistics:

Our target segments are mid-level executives with significant experience in supply chain management. Information quality, Performance risk and Joint decision making are variables in independent relation and dependent factor is Supply chain

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responsiveness. We have surveyed supply chain professionals from the industries like E-commerce, Cold chain logistics, FMCG, Healthcare etc. We collected the data through surveying with Questionnaire method. Response collection were through Google forms and emails. Sample size was 178 due to economic constraints and paucity of time. Majority of respondents have an experience of 8 years in their respective fields. Data has been collected specifically for each factor.

## 8. Analysis:

SPSS 23 version was used for data analysis. Manual screen of data has been performed after the analysis of first special codes with high mission value responses alongside omission of same kind of responses. Going forward data cleaning and omission of outliers is done through skewness and kurtosis method, histogram and Q-Q plot. In addition, Cronbach's  $\sigma$  have been used for data reliability. The given information in tabular format signifies the value of standard deviation and mean of Cronbach's  $\sigma$ . Factors like information quality have the mean value which is highest on 3.345, Joint decision-making mean is 3.845, performance risk mean is

4.051 and about the dependent variable i.e supply chain responsiveness, the mean is 4.512. To find the relationship among variables, we have tested for one tail Pearson Correlation. This has helped us in determining the relationship between all the independent variables and supply chain responsiveness. All three relationships with the dependent variables are significant according to our Analysis. The corelation between information quality and supply chain responsiveness is 0.698\*\*, which dictates the significance of the relationship. The value of corelation for joint decision making is 0.5\*\*, which again is positive. The value of corelation among the members of performance risk is 0.567\*\*, which is a significant relationship as well. All three relationships are showcasing either positive or strong corelation

Factor	Value of	Value of SD	Value of
	Cronbach's o		Mean
IQ	.842	.50843	4.1819
JDM	.761	.53671	4.0124

PR	.764	.89024	3.0218
SCR	.687	.58371	3.8961

Fac	Info.	Jt. Decision	Performance	SCR
tor	Quality	making	Risk	
IQ	1			
JD	.109	1		
M				
PR	.412**	.502**	1	
SC	.698**	.5**	.567**	1
R				

\*\*Corelation at the 0.01 level is significant (1 tailed)
\*Corelation at the 0.05 level is significant (1 tailed)

Corelation at the 0.03 level is significant (1 tanea)							
Mode	Coefficie		Stan	Va	V	Valu	Remark
1	nts which		dard	lue	al	e of t	S
	are		ized	of	u		
	standardis		Coef	R^	e		
	ed		ficie	2	of		
			nts		Si		
	В	Std.	Value		g.		
		Error	of Beta				
Valu	1.2	.321			4.1	.000	
e of a	38				85		
IQ	.62	.072	.161	.56	2.2	.000	Support
	7			0	76		ed
JDM	.54	.071	.382	.50	5.4	.000	Support
	1			9	82		ed
PR	.61	.039	002	.38	-	.000	Not
	9			4	.04		Support
					8		ed

a. Dependent variable: Supply chain responsiveness

IQ: Information Quality JDM: Joint Decision Making PR: Performance Risk

SCR: Supply Chain Responsiveness

While testing the assumptions of homoscedasticity, linearity, residual independency, and normality, normal distribution of residuals, multiple regression confirmed the synopsis. It also helps us determining the research variables direction towards being linear and the degree of strength. The above table of regression analysis shows the relationship between dependent variable and independent variable. All three independent variables were regressed against supply chain responsiveness with a variance of, R<sup>2</sup>(.560), R<sup>2</sup>(.509), R<sup>2</sup>(.384), respectively which indicates that 56% of Information Quality, 50.9% of joint decision making and 38.4% can increase the effect of SC responsiveness within the industry. Models which relate the independent and dependent variables was developed multiple regression analysis. Supply responsiveness which is the dependent variable in our first model, have p-value

<0.01 whearas for 0.05 independent variables it is <0.05.

Information Quality and other independent variables explains that variance (r2) of SCM in the results. This individual prediction contribution in the model is indicated by Beta coefficient values. Information quality has a beta value of .627, this mean the overall impact of Information quality on SCR with one unit of increase is 0.627. Similarly, Supply chain responsiveness and joint decision making has a significance of .541. Similarly, with one unit increase in Performance risk there would be an impact of .619 on supply chain responsiveness. The relationship of supply chain

responsiveness is significant with Information quality and Joint

decision making but not significant with performance risk, so we accept H1 and H2 but H3 is not accepted.

#### 9. Limitations:

There were certain limitations with our research which are as follows:

- The responses were limited.
- We couldn't approach supply chain professionals in every industry.
- Couldn't include a senior level perspective in the research.
- This method is unidirectional.
- There could be other factors as well, which affects the supply chain responsiveness.

#### 10. Conclusion:

This research take three independent variables and one dependent variables in to consideration. Three independent variables are Joint Decision Making, Information Quality and Performance Risk. The dependent variable and the factor we are trying to test here is supply chain responsiveness. All the independent factors influence Supply responsiveness positively, with all the relevance from supply chain literature. This study suggests the importance of supply chain responsiveness and its influence on supply chain professionals on a measured scale. This research is conducted to understand the relationship between certain supply chain parameters and its responsiveness. The current study also includes the methods to enhance the supply chain responsiveness literature. Except Performance risk all the other independent variables has a significant impact. In this process it represents a theoretical perspective of supply chain management's potential deployment as a means to achieve supply chain responsiveness. In a holistic perspective, this research provides further development in the relationships of Supply chain responsiveness and its performance, which depends on certain factors and the exact impact measurements. There are a lot of researches that has happened on certain other methods to enhance supply chain responsiveness, in future a comparative study should be conducted between these researches

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