ISSN: 0974-1798

Apeejay Business Review

Volume 13, Number 1 & 2

January-December 2014

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Published by Apeejay School of Management, New Delhi

School of Management Sciences, Apeejay Stya University, Sohna

Apeejay Business Review (ABR) is a peer-reviewed and refereed bi-annual journal published jointly by Apeejay School of Management, New Delhi and School of Management Sciences, Apeejay Stya University, Sohna.

ABR publishes original research papers on all the functional areas of Management to augment body of knowledge as also to influence managerial practices, holistic policy-making, strategy formulation and raise the level of public discourse on contemporary issues in business and management.

ABR follows a fair peer-review policy. Each paper received for publication is sent for review where identity of both the reviewers and contributors are kept confidential. Normally the review process takes 10-12 weeks.

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Annual Subscription: Rs. 200/- (India) \$ 30 (Overseas)

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Printed and Published by Director, Apeejay School of Management, Sector 8, Institutional Area, Dwarka, New Delhi –110077 on behalf of Apeejay School of Management, New Delhi and School of Management Sciences, Apeejay Stya University, Sohna.

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Editorial

With great pleasure, we present the 13th Volume of Apeejay Business Review to the community of scholars and practitioners. From this edition, the journal is being published by Apeejay School of Management, New Delhi in collaboration with School of Management Sciences, Apeejay Stya University, Sohna. This collaboration is likely to strengthen the journal in terms of quality, reach and inter-disciplinary research outcomes.

The current volume provides interesting readings in various functional areas of management. All the articles and research papers are imbued with the fresh insights. We hope that the present Volume enlightens and enriches the readers with new perspectives on diverse aspects of Management function. We are publishing five research papers in this issue.

Pramod Kumar Gupta and Tanuj Nandan have analysed the significance of supply chain risks which have immense potential to affect the operational and financial performance of firms in their work "*Managing Risk in Supply Chain: Review of Approaches and Emerging Trends*". The authors argue that mitigation and management of supply chain risks and uncertainties are crucial for the success of an organization.

Parul Sinha, Monika Arora and N. M. Mishra have explicated the need and importance of Knowledge Management in business so as to make sustainable business in their work *"Knowledge Management in Business: A Review of Implementation Issues and Evaluation Techniques"*. Knowledge-based competitive advantage is very much essential for success and growth of each organization in a dynamic environment. In this paper an effort has been made by the authors to review some of the implementation issues and evaluation techniques in a systematic manner.

Anjali Jindal, Pooja Garg and Renu Rastogi have provided a broad overview on the relationship between job design and employee burnout in their work "Decoding Impact of Job Design on Employee Burnout". The empirical evidences show that there is inverse relationship and impact of job design on burnout of employees. The present study confirms that job design and its related factors do have negative impact on burnout for the managers.

Sandeep Tandon and Ranju Katoch have studied the role of innovative climate on the performance and growth of public utilities enterprises in their paper "*Employees' Perception towards Innovative Climate in Public Utility Enterprises: A Comparative Analysis*". The authors emphasize a need to nurture innovative climate at public utility enterprises for better quality of service and efficiency.

Deepak Halan and Varuna Tyagi have tried to decode consumer behaviour through the lens of social media in their paper "Understanding Consumer Psychology via Social Media". It goes without saying that social media tools have become superb channels for marketers to reach consumers, given their two-way communication format. An organisation that uses social media is more likely to create relationships with members of its target demographic vis-à-vis one that uses traditional media. The authors have examined the influence of social media on consumer behaviour in this paper.

We would like to thank all our contributors, anonymous reviewers and readers for their continual encouragement and support. We earnestly request the readers to forward their

suggestions if any, towards improving the journal. You are also invited to contribute empirical research papers, conceptual papers, review articles, book reviews, etc. for June 2015 issue of the journal.

-Editors

Managing Risk in Supply Chain: Review of Approaches and Emerging Trends

Pramod Kumar Gupta and Tanuj Nandan School of Management Studies, Motilal Nehru National Institute of Technology, Allahabad

Abstract

Business imperatives to survive and sustain in highly competitive economic scenarios viz. agile, leaner and global supply chains as well as events such as inclement weather, terrorist attacks and financial instability have played catalytic role in the emergence of Supply Chain Risk Management (SCRM) as a vital component of corporate strategy during the past decade. Supply chain risks are primarily related to inbound and outbound logistics in organizations' material, information, and financial flows. Significant supply chain disruptions affect an organization's revenue, erode market share, bloat costs and budget, threaten production and distribution, tarnish credibility with investors and other stakeholders, and skyrocket the cost of capital. The recent researches indicate that only those companies, that prepare themselves systematically, recover from supply chain events effectively. Supply chain risk management has accordingly evolved as a popular area of research, especially during past decade. Many papers, with varied focus and approaches, have been published during this period to address several issues related to identification, assessment and mitigation of myriad risks encountered in supply chains. This paper intends to survey and classify available literature on SCRM with an aim to identify various trends emerging in this area.

Keywords: supply chain risk management, risk assessment, literature review, vulnerability, risk optimization, risk mitigation

Introduction

To contain cost and gain strategic competitive advantage MNCs across various industries pursued ambitious innovative improvement initiatives, including total quality management, global just-in-time supply chain management, lean manufacturing, lean supply chain logistics, efficient consumer response, quick response, global outsourcing/sourcing, and co-manufacturing. Although these ambitious initiatives indeed saved firms billions of dollars, they equally made the global supply chains more complex, convoluted, and venerable to disruptive risks. Indeed, Supply chain has gained a deserving attention because it focuses on the efficiency and effectiveness of material/product, information, and financial flows from upstream (suppliers) to downstream (customers) and today's competition is based on it, not among firms (Sadler and Gough, 2005). Although supply chain management has been touted as source of building, sustaining, and gaining competitive edge (Hendricks and Singhal, 2005), improved financial performance from designing effective supply chains, and shareholder value creation (Chopra and Meindl, 2001), firms can no longer guarantee the past achievements because of today's risks and uncertainties. Safeguarding the SC that contributed to the success of a variety of firms against the risks of disruptions has

become imperative in recent years. Nevertheless, its complex nature has become increasingly uncontrollable and vulnerable to disruptions linked to lean initiatives such as reduction in supplier base, just-in-time supply chain management, outsourcing, and sourcing (Enyinda, Tolliver, and Szmerekovsky, 2007).

The ultimate goal of SCM entails cost containment, increased customer value and satisfaction, sustaining competitive advantage (Mentzer et al., 2001), enhance the operational efficiency, profitability of a firm and its supply chain members (Min and Zhou, 2002), integrating business functions and processes to build a cohesive and high-performing business model. Indeed, SCM has been acknowledged as a great differentiator to the success of a variety of firms competing in the new era of fast changing and turbulent business environments. It has become one of the most discussed disciplines in the popular press because of such variables as globalization of production and market, competitive pressure, information and communication technology, consumer behavior, mass customization and complex supply chain networks that have become increasingly uncontrollable, vulnerable and susceptible to disruptions (Enyinda, Tolliver, and Szmerekovsky, 2007) and adapt to prolonged disruptions.

While globalization (global production and marketing), outsourcing and sourcing, lean manufacturing, total quality management, downsizing and rightsizing, and global just-in-time supply chain management initiatives have enabled organizations to contain costs, focus on strategic core competencies, and ameliorate operational efficiencies, the same initiatives more than ever before, have rendered the modern global SC more vulnerable and/or less resilient to sudden disruptions. Indeed, organizations are increasingly susceptible to both high-impact and low-impact disruptive events (Sheffi and Rice, 2005). They "are vulnerable not only to attacks on their assets, but also to attacks on their suppliers, customers, transportation providers, communication lines, and other elements in their eco-system" (Sheffi ,2001).

Disruptions due to risks inherent in SC have become a cynosure and assumed exponential importance during the current decade. SC risks signify risks that are related to inbound and outbound logistics in organizations' material, information, and financial flows. Supply chain risk pertains to any threat of interruption to the functioning of the supply chain (Christopher, 2005). These risks and uncertainties can have profound implications for global manufacturing organisations. In fact, significant SC disruptions can tailspin an organization's revenue, erode market share, inflate costs and budget, intimidate production and distribution, tarnish credibility with investors and other stakeholders, and skyrocket the cost of capital (Bosman, 2006). Hendricks and Singhal's (2005) study of 800 firms that announced a supply chain disruption between 1989 and 2000, reported that during a three-year period, disrupted firms experienced a 33 to 40 percent decline in stock returns relative to comparable industry counterparts, regardless of industry, disruption cause or duration of time period. Similarly, share price volatility in the year after the disruption was reported to be approximately 14 percent higher relative to the volatility in the year before the disruption. The purpose of this paper is to provide an extensive literature review on supply chain risk management.

In particular, we aim to:

- Classify SCRM articles according to their approaches and methodologies.
- Discuss opportunities for future research.

Research Methodology

In this paper, an exhaustive search of the articles related to supply chain risk management was undertaken. Articles published from 2000 to 2010, focusing on risk management issues in supply chain were searched through various electronic databases, including Science Direct, Emerald Full text, EBSCO, and Inderscience. The keyword used for the search was "supply chain risk". A total of 256 articles were found. After looking at the types of articles, we have finally shortlisted 65 relevant articles to be reviewed in this paper.

Analysis: Categorisation of Research Papers

Apart from reviews and surveys, various methodologies used by various researchers could be divided into five categories, conceptual, descriptive, empirical, exploratory cross-sectional and exploratory longitudinal. The conceptual is meant to represent a research methodology that describes basic/ fundamental concepts on supply chain risk management. In this classification, most papers propose a conceptual methodology for managing supply chain risks.

Descriptive is a methodology that descripts, formulates, and develops model in supply chain risk management. For example, there are models that have been developed as a supply chain management framework that include identification, analysis and prioritizing mitigation actions. Some popular tools such as failure mode and effect analysis (FMEA) and analytical hierarchy process (AHP) have been used for this purpose.

Empirical is a methodology in which the data for study is taken from existing database, case study, literature review, and taxonomy or typology approaches. Some of the studies in this category are in the form of a survey study involving practitioners as respondents.

Exploratory cross-sectional is a methodology where the information is collected at one point in time while exploratory longitudinal is a survey methodology where the data collection is done at two or more points over time in the same organization.

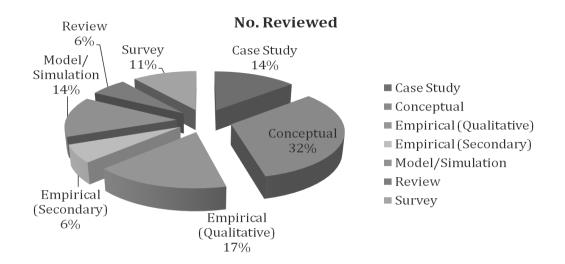
The overview and year-wise distribution of supply chain risk management papers according to the various methodologies is shown in Fig. 1 and Fig. 2 respectively.

As it is shown, almost one third of the papers have applied the conceptual approach in their methodology. In the second place is the empirical research, and is by far lower than the two are conceptual and exploratory researches. The descriptive and empirical researches together account for 80% of the methodologies used.

Type of Study												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
Case Study	1			2	3	1	1		1			9
Conceptual		1	1	2	9	1	2	1	1	1	2	21
Empirical (Qualitative)	1	1		1	1	1		2	1	1	2	11
Empirical (Secondary)				1	1	2						4
Model/Simulation	2		1			3	1	2				9

Review						1	2			1		4
Survey		1	1			1	1		1		2	7
Grand Total	4	3	3	6	14	10	7	5	4	3	6	65

Figure 1: Distribution of Research Papers



Stages in managing risks in SC

Risk management in supply chains normally involves activities such as identifying supply chain risk events, assessing the probabilities and the severity of impacts, prioritizing the risk event to be dealt with and developing actions for mitigating risks or planning for backup actions. In the identification stage, one may use various techniques or tools. Following risk management stages were considered pertinent from the view of Supply chain management:

- 1. SC Risk Identification
- 2. SC Risk Assessment
- 3. SC Risk Management
- 4. Business Continuity Management

SC Risk Identification

The initial step in the process of managing risk is to identify potential risks. Risks are about events that, when triggered, cause problems. Hence, risk identification can start with the source of problems, or with the problem itself. Kleindorfer and Wassenhove (2004) argued that to mitigate risks in supply chain one must first identify the underlying sources of risks. By risk mitigation, Miller (1992) means those strategic actions that organizations pursue to thwart the uncertainties identified from variety of sources. Therefore, since risks are caused by unexpected events and uncertainty, it is necessary to identify and categorize the sources of risks in global supply chains.

SC Risk Assessment

Lack of ownership of risk sources in supply chains can lead to little or no control because of ambiguous lines of responsibility; chaos risk sources in supply chains are due over-reactions, unwarranted interventions, false alarm, lack of transparency, etc.; and inertia risk sources

emanate from the inability of organizations to sense and respond to changing environmental and market conditions (Juttner et al., 2003).

Van Landeghem and Vanmaele (2002) posit that sources of uncertainty in supply chain include customs regulations, price changes, information delays, competitor action, political environment, stochastic cost, available capacity, supplier quality, manufacturing yield, and internal organization. Sources of supply chain risks emanate from environmental, organizational, or supply chain logistics-related factors that cannot accurately be predicted and can impact the supply chain outcome variables (Juttner et al., 2003). Also, due to the inherent complexities of the physical and economic systems, the unfolding of most processes shows attributes that cannot be forecast with absolute accuracy (Moschini and Hennessy, 1999).

Once risks have been identified, they must then be assessed as to their potential severity of impact (generally a negative impact, such as damage or loss) and to the probability of occurrence. These quantities can be either simple to measure, in the case of the value of a lost building, or impossible to know for sure in the case of the probability of an unlikely event occurring. Therefore, in the assessment process it is critical to make the best educated decisions in order to properly prioritize the implementation of the risk management plan.

SC Risk Management

The risk management involves the course of actions to be considered in order to reduce the risks. This can be done by reducing the probability of occurrence, the severity of impacts, or both. Generally, risk management involves such options as transferring it to or sharing it with other parties, accepting it as it is, or avoiding the risks. Transferring risk to other parties is a common supply chain management practices nowadays. The stage immediately after completion of the risk assessment phase consists of preparing a Risk Management Plan, which should document the decisions about how each of the identified risks should be handled. Mitigation of risks often means selection of security controls, which should be documented in a Statement of Applicability, which identifies which particular control objectives and controls from the standard have been selected, and why. On one side a supply chain is exposed to certain risks, that may (or not) lead to certain supply chain disruptions. One the other side the supply chain has certain characteristics, which determine the supply chain vulnerability. The severity of supply chain disruptions is related to supply chain design characteristics (supply chain density, supply chain complexity and node criticality) and supply chain mitigation capabilities (recovery capability and warning capability). In brief: supply chain structure and supply chain organization. Within this framework, a company can address supply chain disruptions in two ways:

- 1) Redesign the supply chain towards a better structure, in order to gain a better location, or
- 2) Redesign the supply chain towards a better organization, in order to gain better preparedness.

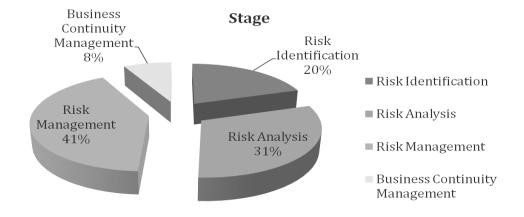
Business Continuity Management

Business Continuity Management (BCM) deals with the development of strategies, plans and actions which provide protection or alternative modes of operation for those activities which, if interrupted, might bring a seriously damaging impact or fatal loss to the company. According to Norrman and Lindroth (2004), BCM covers wider scopes than the supply chain risk management.BCM includes crisis management, disaster recovery, business recovery, and contingency planning which are often not considered to be the main focuses of supply chain risk management.

The overview and year-wise distribution of supply chain risk management papers according to the stage of risk management addressed in them is shown in Figure 3 and Figure 4 respectively.

Stage												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Grand Total
Risk	1	2		1	4	3			1	1		13
Identification												
Risk	1		1	3	6	3	1	3		1	1	20
Analysis												
Risk	2	1	2	2	4	3	5	1	3	1	3	27
Management												
Business						1		1			3	5
Continuity												
Management												
Grand Total	4	3	3	6	14	10	6	5	4	3	7	65

Figure 3: Overview of Research Papers



It is evident that more than one third of the papers have addressed Risk Management process in their methodology which is followed by Risk Analysis and Risk Identification stages. Risk Analysis and Management together account for 72% of the methodologies used. BCM is still in infancy and indicates towards an area where there happens to be considerable requirement of future endeavours.

Importance of Supply Chain Risk Management (SCRM)

Supply chain risks have immense potential to adversely affect the operational and financial performance of firms. In the long-term, their impact of on organizations' market shares and public image becomes increasingly visible. Mitigation and management of SC risks and uncertainties therefore becomes unequivocally imperative. It is not only socially responsible and good business (Kleindorfer, 2000); it drives business value (Peleg-Gillai et al 2006).

Kleindorfer (2000) proposed that in order to manage and mitigate supply chain risks one must execute following integrated processes:

- 1) Identifying underlying sources of risks,
- 2) Determining the gateways by which such risks can manifest,
- 3) Assessing the potential impact of these risks under various scenarios, and
- 4) Providing the measures for mitigating and coping with these impacts.

Faisal et al. (2007) argued that understanding of the variables associated with risk mitigation and their relative interdependencies are the most difficult part of SCRM. Peck (2006) puts it that the primary goal of risk management is to identify and quantify the potential sources of risks, control and reduce specific narrowly defined risks.

In realizing the business objectives, organizations are immensely dependent on the supply chain partners and the influence of any link in the supply chain. To ensure that the organizational objectives stand a better chance of being attained, it becomes necessary to gain a full understanding of all the developments and uncertainties that could emerge at any point in the supply chain.

Effective Supply Chain Risk Management provides a number of direct benefits:

- > The ability to anticipate and respond promptly to external trends and developments.
- \triangleright A focus on uncertainties rather than the certainties.
- ➢ Greater influence over your supply chain partners.
- > Greater mutual understanding of the interests and problems of all supply chain partners.
- > Better balance between opportunities and threats.
- > Management which is not based on the cost factor alone.
- Competitive edge through the acceptance of controlled risks.

Emerging Trends

The ability to "optimize an organization's financial performance requires ongoing analysis of key risks spanning the entire supply network that connect suppliers, manufacturers, distributors, retailers, and customers. Analyzing the supply chains with the perspective of risks gives organizations a better understanding of the potential sources of a disruption, and, most importantly, the potential financial impact resulting from the disruption" (Lowery, 2004). However, Mitroff and Alpaslan (2003) reported that only a mere 5% to 25% of Fortune 500 companies were girded to deal with disruptions and/or crisis.

In recent years, the relevance of risks and uncertainty in supply chain has received an avalanche of attention from academics, practitioners, (Hendricks and Singhal, 2005; Kleindorfer and Van Wassenhove, 2004; Cavinato, 2004; Kleindorfer and Saad, 2005; Towill, 2005; Peck, 2006; Barry, 2004; Christopher, 2003 Christopher and Lee, 2004; Zsidisin et al., 2004; Spekman and Davis; 2004), markets and governments. From the perspective of supply chain management, probability is generally regarded as the measure of how often a disruptive event that can lead to a loss occurs (Zsidisin et al., 2004). However, despite the fact that the risks continue to rise, most organizations have not done enough and are unprepared to effectively manage and mitigate those risks.

A global survey of business executives by the McKinsey Quarterly (2006) reported that:

1) Approximately 67% of respondents said that the risks to their global supply chains have increased over the past five years;

2) About two out of three executives who responded indicated that they are facing increasing risks to their ability to supply their customers with goods and services cost effectively;

3) A significant number of the executives do not spend enough time or resources on managing and mitigating risks;

4) Approximately 25% of their companies do not perform formal risk assessment and about 50% lack company-wide standards to help manage and mitigate risks;

5) Few executives expressed confidence in their firms' ability to manage variety of risks successfully and are making limited use of some well-known tools that could help.

SCRM has been a rapidly growing area for a few years. Papers on supply chain risk management address various types of supply chain risks and authors have developed various risk classifications. Understanding the types of risks and their probability of occurrence as well as the associated impacts is a starting point for companies to develop effective risk management strategies. Since supply chain risk management is still in the infancy stage and the need for better supply chain risk management is high, this field will continue to be placed on top list of future research agenda.

In general, the use of information technology could improve information visibility across the supply chain. It is important to understand what different people in an organization or across different organizations within a supply chain perceive about supply chain risks. Similarly, It would be interesting to explore differences and similarities in perceptions toward supply chain risks inside an organization and across organizations in a supply chain. More research needs to be conducted to learn how technologies could be used to mitigate risks in a supply chain.

The collaborative planning and forecasting are gaining more attention in the literature. Future research should then be expanded to explore how collaborative risk management between companies in a supply chain could work. The possible research could be the design of a framework for collaborative risk management and various possible schemes for collaborative risk management between organizations in a supply chain.

Conclusion

Globalization, outsourcing, lean and agile approaches have made the supply chains exceedingly vulnerable to risks. More than ever, they are exposed to myriad risks viz. regulatory compliance, exchange rate fluctuation, interest and inflation rates, tariffs, commodity prices, quality labor, socio-political conditions, natural disasters, and infrastructure imperatives. Only firms capable of managing supply chain risks would enhance shareholder value and firms that neglect to respond to the challenges posed by SCRM would do so at their own peril. According to McBeath (2004), "understanding the risks and managing to avert them can prevent unplanned cost and improve total performance. As the inventible disruptions occur every day in supply chains (as in life), those that are the most resilient will win by a long shot." Accordingly, the businesses have an obligation towards shareholders and consumers to pursue SCRM implementation. Those organisations that are successful in addressing and vaccinating their global supply chain against disruptions risks and uncertainties will gain competitive advantage and create value for shareholders.

To survive and thrive amidst the emerging challenges in the twenty-first century, firms are required to learn and adapt expeditiously to environmental imperatives. This implies that

they must find "a new way of operating that gives them the flexibility to respond quickly to unexpected changes. Transforming business to succeed in this rapidly accelerating environment is no longer optional. In essence, adapt or die" (Heinrich and Betts, 2003). Therefore, to succeed, the businesses must look proactively towards implementation of SCRM to become resilient to abrupt disruptions in supply chains.

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Knowledge Management in Business: A Review of Implementation Issues and Evaluation Techniques

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Abstract

Knowledge Management Systems (KMS) are of prime importance in the business scenario these days. They act as key enablers of business performance monitoring and also catalysts for the business processes. The background of the paper lies on the fact that, just as human beings are unable to draw on the full potential of their brains, organizations are generally not able to fully utilize the knowledge that they possess. Through Knowledge Management (KM), organizations seek to acquire or create potentially useful knowledge and to make it available to those who can use it at a time and place that is appropriate for them to achieve maximum effective usage in order to positively influence organizational performance. Despite of these continuous efforts by every organisation for achieving sustainable competitive advantage, a desire exists to constantly monitor their KM system and also to iteratively resolve the KM adaptation and Implementation issues that may occur. In this paper an effort is made by the authors to review some of these implementation issues and evaluation techniques. Some methods, obtained from literature review and real life case studies are also suggested to conquer the challenges that may occur and improvement methods are suggested.

Keywords: knowledge management, knowledge management system, organisation

Introduction

In today's business environment, knowledge has emerged as the most valuable corporate asset and deserves to be managed as a primary resource. Managing knowledge is about monitoring, securing and realizing the potential and value of the information the company possesses and the people, who multiply this value by adding experience, knowledge and associations in order to produce new insights. This cycle continues endlessly and the companies who succeed in organizing and using this flow will be the winners of tomorrow. Information technology acts as a facilitator and contributes tools, enable processes and networks that make it easier to find relevant information and people. Further, Information Technology leverage the value of information by providing structure, perspective and access to otherwise unstructured information.

Knowledge management has evolved from the thinking of academics and pioneers such as Peter Drucker in the 1970s, Karl-Erik Sveiby in the late 1980s, and Nonaka and Takeuchi in the 1990s. Globalization emerged and brought new opportunities and increased competition. Companies adapted by downsizing, merging, acquiring, reengineering and outsourcing. Many streamlined their workforce and boosted their productivity and their profits by using advances

in computer and network technology. By the early 1990s a growing body of academics and consultants were talking about knowledge management as "the" new business practice, and it began to appear in more and more business journals and on conference agendas. By the mid-1990s, it became widely acknowledged that the competitive advantage of some of the world's leading companies was being carved out from those companies' knowledge assets such as competencies, customer relationships and innovations. Managing knowledge therefore suddenly became a mainstream business objective as other companies sought to follow the market leaders.

Many of these companies took the approach of implementing "knowledge management solutions", focusing almost entirely on knowledge management technologies. However they met with limited success. Fortunately companies are now recognizing their mistakes and are beginning to take a different approach to knowledge management – one in which the emphasis is more on people, behaviors and ways of working, than on technology.

Knowledge Management

Knowledge management involves two important parts: "Knowledge" and "Information". Before moving forward to knowledge management it is important to know what knowledge is: In general knowledge can be defined as "the facts, feelings or experiences known by a person or group of people". Knowledge is derived from information while information is derived is from data which is raw facts and figures. When data is processed it gets converted into information and finally it gets converted into knowledge after some gaining some familiarity, awareness and understanding through experience or study therefore knowledge is much richer and meaningful than information. Knowledge results from making comparisons, identifying consequences, and making connections. Information, knowledge, and wisdom are more than simply gatherings; they are one step ahead of each other. Each evolves to the other stage as a synergy of numerous factors. This could be depicted with the help of Fig. 1.

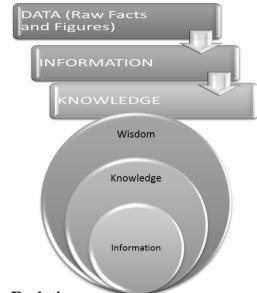


Figure 1: Knowledge Evolution

Knowledge is a fluid mix of framed experience, values, contextual information, expert insight and grounded intuition that provides an environment and framework for evaluating and incorporating new experiences and information. It originates and is applied in the minds of knower. In organizations, it often becomes embedded not only in documents or repositories

but also in organizational routines, processes, practices, and norms (Davenport & Prusak 1998). In organizational terms, knowledge is "know how" or "applied action". Knowledge Management is about applying the collective knowledge of the entire workforce to achieve specific organizational goals. In organization it is based on the concept that organization's most valuable resource is the knowledge of its people. Therefore, the extent to which an organization performs well, will depend, among other things, on how effectively its people can create new knowledge, share knowledge around the organization, and use that knowledge to best effect.

The aim of knowledge management is not necessarily to manage all knowledge resulting from Information processing, because it may lead to Overloading. According to (Derbyshire, 2011) Scientists have worked out exactly how much data is sent to a typical person in the course of a year – the equivalent of every person in the world reading 174 newspapers every single day. This overload of data is making knowledge management increasingly important. It is about ensuring that people have the knowledge they need, where they need it, when they need it – the right knowledge, in the right place, at the right time. Knowledge management can be understood as a business activities as an obvious concern of business , as a strategic resource, and 2)Making a Proportionate relationship between an organization's intellectual assets and business results.

In practice, knowledge management often consists of activities for 1) Identifying and mapping intellectual assets within the organization, 2)Generating new knowledge for competitive advantage within the organization,3) Making vast amounts of corporate information accessible,4) Sharing of best practices, and 5)Technology that enables all of the above - including groupware and intranets.

The KM practices in most organizations have three phases: 1) Creation of databases or knowledge repositories -- gathering data/information; 2) Dispensing information -- meetings, seminars, or accessing online databases; and 3) Maintaining the KM database -- adding, deleting and updating information. The best known KM system is Google. Another well-known repository of knowledge is Wikipedia. Knowledge management systems are not new; just the name is new. The old version of a KM system used to be called library, where we obtained books that contained vast amounts of knowledge. When someone wanted to retrieve some information they went to the library searched for books and periodicals, and tried to find the required information. Libraries still exist, but most people today want immediate gratification, coupled with an urgent need to get reliable, updated and tried and tested solutions to their unique requirements. These demands can be satisfied by a KM solution to some extent.

Need of Knowledge Management in Business

Over the past several years there have been intensive discussions about the need or importance of knowledge management within our society and in particular within the Industry. Also it is stated that, the mere existence of knowledge somewhere in an organization is of little benefit; it becomes a valuable corporate asset only when it is accessible, and its value increases with the level of accessibility (Davenport & Prusak, 1998). Thus, the transmission of knowledge is crucial. It is the ability to transmit knowledge more quickly and more effectively to a wider global audience that lies at the root of the New Economy's productivity potential. Knowledge management is critical to business success and to make knowledge work productive is the great management task of this century (Botkin

1999). According to (Serban and Luan 2002), knowledge-based competitive advantage is sustainable because learning is indispensable and hence the limit to knowledge creation. Thus there are five reasons for the rise in popularity of KM in various areas namely, 1) Information overload and chaos 2) Information congestion 3) Information and Skill segmentation and specialization 4) Workforce mobility and turnover and 5) Competition .

These views from the literature review can be discussed with the help of following important points:

a) Knowledge Management is promoted as an important and necessary factor for organizational survival and maintenance of competitive strength. To remain the market leaders, organizations need to maintain a good capacity to retain, develop, organize, and utilize their employee's capabilities. With the current globalization scenario of strategic alliances and expansion programs, organizations are increasingly confronted with worldwide competition. In order to build and sustain their competitive advantage, the knowledge and expertise of an organization's staff needs to be observed and preserved as a critical strategic resource.

b) Knowledge management also includes resolving and improving relationships among individuals and companies and increasing the knowledge of employees. It paves the way for rewarding, to encourage innovative and creative thinking, contributing ideas, giving way to knowledge acquisition and knowledge creation. Due to the dynamic nature of knowledge, its management is an ongoing, permanent cycle of gleaning, collating, data-basing and editing as the knowledge is updated. The customer feedback also adds to the knowledge base and provides information as to how the respondents perceive the products and services on offer, whether they require additional products and services and how they feel generally about the company.

c) Correct management of the required knowledge will increase sales and ensure improved customer satisfaction. Storing the knowledge acquired is a must, because something that is in someone's head is of no use unless there is access to it and nothing can do that well than a good knowledge management software system. Scholars have broadly classified knowledge as tacit and explicit (Polanyi, 1966; Wagner, 1987; Nonaka, 1994; Nonaka & Takeuchi, 1995; Sternberg, et al, 1995).

Wagner and Sternberg (1995) have defined tacit knowledge as work-related practical knowledge learned informally through experience on the job. They further observe that tacit knowledge is an intellectual and cognitive process that is neither expressed nor declared openly but rather implied or simply understood. It is intimately related to action such that it reflects knowing how as contrasted with knowing what. It is normally procedural in nature and acquired without direct instruction or help from others. Indeed, tacit knowledge is highly personal and hard to formalize, making it difficult to communicate and share with others. Subjective insights, intuition and hunches fall into this category (Nonaka & Konno, 1998). Example of explicit knowledge include strategies, methodologies, processes, patents, products and services, whereas example of tacit knowledge include skills and competencies, experiences, relationships within and outside the organization, individual beliefs ,values and ideas.

Knowledge Management Implementation

Knowledge management is essentially about facilitating the processes by which knowledge is created, shared and used in organizations. It is not about setting up a new department or

getting in a new computer system. It is about making small changes to the way everyone in the organization works. There are many ways of looking at knowledge management and different organizations will follow their own tailor made unique approaches. Generally, creating a knowledge environment usually requires changing organizational values and culture, changing people's behaviors and work patterns, and providing people with easy access to each other and to relevant information resources.

When we talk of actual implementation, the processes of knowledge management are many and varied. Knowledge management is essentially about people – how they create, share and use knowledge, and so no knowledge management tool will work if it is not applied in a manner that is sensitive to the ways people think and behave. Some of the processes that can be a part of a knowledge management program can be : 1)Providing induction programs concerned with "know how" to new staff, 2)Conducting exit interviews when staff leave so that their knowledge is not lost, 3)Creating databases of all publications produced by an organization so that staff can access them with ease, 4)Providing ongoing learning so that people can constantly update their knowledge, 5)Encouraging people with a common interest to work and network with each other, 6)Creating electronic filing systems that can be searched in a number of ways, making the information much easier to find, 7)Redesigning physical workspaces , where people are more visible and approachable, 8) Putting staff directories online so that people are aware of their peers, 9)Creating intranets so that staff can access all kinds of organizational information and knowledge that might otherwise take a great deal of time and energy to retrieve, and several others.

The Knowledge Management Process Cycle

KM processes directly improve organizational processes and procedures about innovation, collaborative decision-making, and individual and collective learning. These improved organizational processes and procedures produce intermediate outcomes such as better decisions, organizational behaviours, products, services and relationships. These, in turn, lead to improved organizational performance. The process cycle model of Fig. 2 depicts the same with the generally accepted terminology of KM. There have been numerous KM processes cycle models that describe the relationships of the key processes of KM, ranging from Davenport and Prusak's (2000) 3-stage model "Generate, Codify/Coordinate, Transfer" to Ward and Aurum's (2004) 7-stage "Create, Acquire, Identify, Adapt, Organize, Distribute, Apply" (William R. King, 2009).

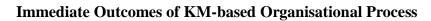




Figure 2: KM in an Organization (W.R. King (ed.), Knowledge Management and Organizational Learning, Annals of Information Systems, DOI 10.1007/978-1-4419-0011-1_1, © Springer Science + Business Media, LLC 2009)

The KM system is developed through six phases: a) Development Phase: Under this phase the data and idea generation is done by brainstorming and other ways, b) Judging Phase: In this phase the data or ideas relevant to the concerned topic are identified and selected, c) Creativity Phase: The creativity over the ideas is done to represent and then distribute the achieved knowledge, d) Showing Phase: This phase is to represent the creative idea, e) Messaging Phase: In this phase the achieved knowledge is distributed to the concerned personnel, f) Goal Achieved: When the knowledge is distributed the goal of knowledge management is achieved, refer Fig. 3:



Figure 3: KMS Development

Implementation Issues

Knowledge management implementation is quite expensive, but all valuable programs require a major investment. Alternatively, the organization can build their own KM system using its own people. Over the next few years they can collect feedback of "subject matter experts, thought leaders and master performers" and document the best practices of the best teams and segments of their organization. It is also a possibility that most of their experts purposely withhold the most valuable knowledge they have for personal reasons. Systems will be designed or purchased for cataloguing and storing all of this data, and websites will be created for making it easy for employees and partners to access the valuable knowledge.

Thousands of hours are spent, along with hundreds of thousands of dollars, and when senior management wants to know how this new KM program is going, the only data that can be provided is anecdotal/opinions, or counts of meaningless activities such as meetings held, databases created, or number of hits on the KM website. It is seen that an year or two, attitudes of employees change :1) Most employees still use sites like Google or Wikipedia to find what they need, 2)When someone really wants to know something they ask someone else, 3)Use of the KM website or database has steadily declined from its initial implementation, 4)The KM consultants have concluded their engagement and are off to a new client, 5)The most valuable information in an organization still walks out the door when senior employees retire, 6)The company continues to hire retirees as consultants, 7)Processes have not really improved because everyone thinks their situation is unique and that they can't really benefit by implementing practices discovered by others, 8) Attendance at knowledge sharing meetings and membership of knowledge sharing networks begins to decline as it conflicts with real work assignments, 9)Training budgets continue to escalate even though decreased training costs was one of the supposed benefits of KM and hence the organisation

concludes that their implementation is a failure. Thus the need arises for an effective implementation system, calibration system and a system to monitor the performance of the KM system.

For effective implementation some guidelines need to be followed carefully. Knowledge management doesn't need to be formally introduced throughout a company as a tool/process to their workforce. Anyone can introduce knowledge management techniques at any level of a company or organization. For example, a department manager could implement project reviews where the entire project team gets together at the end of the project to discuss what went well, what didn't go as well as expected, and what could be changed in the next project to help improve the outcomes. This information can then be captured electronically so others in the department and even within the company can learn from past project successes and failures. KM is less about implementing a software tool and more about creating a learning organization

Measuring the Impact of Knowledge Management System: Evaluation Techniques

Measurement is undoubtedly the least developed aspect of knowledge management. Without measurable success, however, enthusiasm and support for knowledge management is unlikely to be sustainable. And without measurable success the organizations are unlikely to be able to identify what works and what doesn't, and therefore not able to make an informed judgement about what to carry on doing and what to change.

For measuring the impact of knowledge management, many organizations may simply rely on their standard performance measures of things like growth, profit and sales While these types of outcome measures are certainly important, they are highly unlikely to be influenced solely by KM activities, and therefore make poor metrics. As we have discussed that the tacit knowledge that has been acquired over years of experience is the biggest concern in organizations when a senior employee retires or moves to another job. Thus organizations that have made a major investment in KM need a separate gauge on their corporate dashboards to tell them how the KM program is working.

Features of Evaluation Techniques

Measuring outcomes focuses on the extent to which a project or a process achieves its stated objectives. The success of the project or process serves as a proxy measure for the success of the knowledge management practices embedded in it. Measuring activities then shifts the focus on to the particular knowledge management practices that were applied in the project or process. What were the particular knowledge management activities and what was their effect? In measuring activities, the organization looks particularly at things like how often users are accessing, contributing to, or using the knowledge resources and practices they have set up. Some of these measures will be quantitative (hard) measures such as the number and frequency of hits or submissions to an intranet site per employee. However, these measures only give part of the picture – they do not tell the organisation why people are doing what they are doing. Thus the organisation thus needs to adopt qualitative (soft) measures by asking people about the attitudes and behaviours behind their activities. For measuring outcomes and activities, qualitative indicators help to determine whether the organisation is making progress on both the outcomes and activities

Such indicators could include the following points :1) Employees have shown an increase in critical thinking and communication skills which enable them to synthesize, sort and summarize information and knowledge as they work and interact with peers and ; 2) There is

a conscious effort to learn before, during and after key projects and activities using established learning processes.

An effective metric or gauge for KMS might be an calibration system that is comprised of the following four types of measures: 1) *Awareness* - knowledge of what to document, how to document it, how to access KM databases, etc, 2) *Behaviour* - participation in KM activities such as committees/teams, making presentations, etc, 3) *Outputs* - creation of databases, whitepapers, lessons learned reports, best practice documentation, etc, 4) *Outcomes* - impact of new knowledge on key measures of organizational performance such as product sales, productivity, cost reduction, or quality improvement.

A business case was studied in which the organisation searched for best practices when it came to KM metrics, and found that many of the activity measures that various companies had tracked often did not correlate to any meaningful outcomes. In other words, lots of databases were built, presentations were made and knowledge sharing meetings were held, but overall company performance had failed to improve. The KM metric they were most impressed with was of an XYZ organisation in similar business that followed an approach that focuses on outputs and outcomes. The organisation does not bother measuring how many things get documented or reviewed. Rather, they measured how many ideas or approaches are developed in one part of the company that are then adopted and implemented in other parts of the company. They also measured how implementation of the ideas and approaches has paid off on bottom-line outcome measures.

KM behaviour measures also tracked documentation of important information and lessons learned, and use of KM software that the company had purchased. They came up with measures of awareness and engagement (behaviour) on a 10-point scale, and ratings were done quarterly because the level of participation on KM activities tended to increase or decrease with time. It was subjective to say whether the KM gauge they created was a valid one, but at least it was one that all participants agree on, and the 60% portion was taken from XYZ and had been proven over a number of years. In fact, XYZ was one of few companies for having an excellent KM measurement system. Knowledge management looks like a valid and effective approach for organizations to pass on lessons learned to others. However, some other management programs that have come and gone over the years or the ones still existing have failed to produce promised results. The failures have not been due to any shortcomings in the programs themselves, but are due to poor implementation or a lack of resources.

Because of this, it is important to have a way of measuring on at least a quarterly basis how well KM initiative is going. Companies should not fall into the trap of measuring KM by counting teams, meetings, databases, website hits, or similar meaningless things that are easy to quantify and report on. They should focus most of their metric on real results that can be attributed to KM. On the other hand, simply tracking existing performance measures like ROI, sales, profits, or customer loyalty will not really show the effectiveness of KM.

In many large organizations, KM is just one of many programs or activities designed to improve performance. This was also the reflected in a business case studied. They created a section of their dashboard called "Enterprise Excellence" that included one gauge for each of the four major improvement initiatives the company had. There was a KM gauge, another for Lean, another for Balanced Scorecard and a fourth gauge that measured the success of Process Improvement. Each of the four Enterprise Excellence metrics had a similar structure, with 60% of the weight on the output/outcome measures and 40% on the awareness/behavior measures. This approach makes sense for measuring any improvement initiative.

The best approach to designing a KM metric is to include the categories of measures we previously have mentioned and include both leading and lagging indicators. To test the validity of the leading indicators, we should monitor to see if an improvement in the leading indicators leads to improvements in the lagging ones. The organizations that we studied found no correlation between KM activity measures and outcomes.

Steps to Measure the Impact of Knowledge Management System

The following steps can be followed for monitoring the KMS in our organisation (Knowledge management toolkit for the crisis prevention and recovery practice area, March 2007)

Step 1: Revisit your goals- The starting point for measuring any knowledge management initiative will be the original goals of that initiative: what did we set out to achieve?

Step 2: Know your audience -When it comes to defining success, we often find that different people have different ideas about what constitutes success. Managers who approved the knowledge management initiative may want to know whether it helped to raise the profile of their area of work. Users of the knowledge management initiative will want to know how it has benefited them and whether their participation has been worthwhile.

Step 3: Be clear on why you are collecting data-Measuring for the sake of measuring is a waste of time – be sure that we are measuring for a specific purpose or purposes, and that some kind of action or decision will be taken as a result. Measuring against the objectives and goals that we have defined at the beginning of a process is a good way to track our progress and will help us to take appropriate corrective action if necessary.

Step 4: Decide what data will be collected and how- Spell out the details by clarifying what data will be collected, who will collect it, how, when, where, etc.

Step 5: Analyse and communicate the measures- When analysing and presenting the results, we should be sure to refer back to the original goals and the audience. The aim should be to present results in a manner that we know that when KM is happening in our organization, it answers the questions in a meaningful way, rather than simply presenting facts and figures.

Step 6: Review your combination of measures- Monitor and evaluate how our measures are working. Developing measures is a process of trial and error- it may take some time. Similarly, as objectives and situations change over time, so does our measures will need to change refer Fig. 4



Figure 4: Steps to Measure the Impact of Knowledge Management System

Conclusion

An organization which embraces KM tends to benefit in several ways, foremost being its ability to cut cost and time. Knowledge management has proven benefits across a business. Which can be categorized as: a) Decreased costs, b) Improved quality, c) Improved sales, and d) Save time. Elaborating these, the benefits can be in plenty such as: 1) Recording of valuable knowledge acquired by senior employees that is in their heads; 2) Identifying where to find valuable facts, data and lessons that will be useful for others; 3) Increased speed of access to information; 4) Sharing of lessons learned in one part of an organization with others who may benefit from it; 5) Minimizing the impact of valuable employees retiring or quitting by first documenting what they know and have learned over the years; 6) A centralized repository of corporate knowledge or intellectual capital; 7) Quality control on data entry to ensure accuracy and completeness of knowledge - a benefit not found with Google or Wikipedia; 8) Increased sharing and cooperation across units, locations and levels in the organization; 9) Improved processes resulting in cost savings and productivity improvements.

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Decoding Impact of Job Design on Employee Burnout

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Abstract

Job related burnout can cause serious consequences for individual and organization, because managers have major role in the functioning of the organizations. The purpose of the paper is to focus on the relationship of job design and burnout of employees and examining how the job design affects the dimensions of burnout. The study has been conducted on a sample of 250 managers from FMCGs. Correlation and Stepwise regression analysis was employed to test the proposed hypotheses. The findings indicate a significantly negative relationship between job design and burnout. This paper offers useful insights for the managers based on empirical evidence.

Keywords: job design, burnout, managers, FMCGs

Introduction

Job design is actually the process of deciding on the contents of a job in terms of duties and responsibilities, on the methods to be used in carrying out the job, in terms of techniques, systems and procedures, and on the relationships that should exist between the job holder and his superior, subordinates and colleagues (Michael Armstrong, 1976). Today educated and creative employees demand well designed jobs. Therefore, increasing attempts are being made to redesign jobs so as to reduce the burnout level in employees.

Burnout is a work-related syndrome that most often affects the professionals. According to Maslach et al. (2001) burnout is a prolonged response to chronic exposure to a variety of job stressors. Empirical evidence indicates serious implications of burnout, implying substantial costs for both organizations and individuals.

When an employee experiences the meaningfulness and responsibility on the job, he feels motivated. He works hard to perform well to the extent. Research has demonstrated that perceived job design and job characteristics are critical aspects that mitigate burnout (Babakus et al., 1996; Ito and Brotheridge, 2003; Stamper and Johlke, 2003; Xanthopoulou, et al., 2007). Consequently, burnout as experienced by employees is likely to have a detrimental impact on customer's perceptions of service quality (Ledgerwood et al., 1998). Empirical evidence indicates serious implications of burnout, implying substantial costs for both organizations and individuals. Possible effects of burnout at the organizational level are increased job turnover and absenteeism, decreased organizational commitment and reduced productivity (Jackson et al., 1986; Lee and Ashforth, 1996; Leiter and Maslach, 1988; Wright and Bonett, 1997; Wright and Cropanzano, 1998). Burnout has been also linked with various health problems such as depression, irritability, anxiety, fatigue, insomnia and headaches (Jackson and Maslach, 1982; Kahill, 1988).

Conceptualizing the Variables

Job Design: The concept of job design is not new. It has roots back to the beginning of the industrial era. Perhaps the best-known theorist on job design is Frederick Taylor, who wrote "The Principles of Scientific Management". He proposed analyzing and breaking jobs into simplified tasks through motion studies. Job design defines and delineates the tasks, duties, and responsibilities of a job. This information is then used to write job descriptions.

In the 1940s, at Berkeley, *Louis E. Davis* (1918-1998) published highly original research about the human impacts of automation and coined the term 'Job Design' to embrace the notion of efficient and more socially effective alternatives to the prevailing industrial paradigm of scientific management. Job design is affected by organizational, environmental and behavioural factors. A properly designed job will make it more productive and satisfying. If a job fails on this count, it must be redesigned based on the feedback.

Hackman & Oldham (1975) identified five dimensions of job design. These dimensions are:

(*i*) *Skill Variety* which concerns the degree to which the job requires that employees use a variety of different activities, talents and skills in order to successfully complete the job requirement.

(*ii*) *Task Identity* which refers the degree to which the job allows employees to complete whole tasks from start to finish, rather than disjointed portions of the job.

(*iii*) *Task Significance* refers the degree of which job significantly impact the lives of others both within and outside the workplace.

(*iv*) *Autonomy* refers to "the degree to which the job provides substantial freedom, independence, and discretion to the employee in scheduling the work and in determining the procedures to be used in carrying it out".

(v) *Feedback* includes the degree to which the job itself provides employees with clear, direct and understandable knowledge of their performance.

Burnout: It can be said that Burnout is the burning topic in the present scenario. This term was coined in 1972 by Herbert J. Freudenberger, the New York psychologist. He defined this term as a specific condition.

It is an emotional state characterized by an overwhelming and enduring feeling of exhaustion or aggravation. Burnout is a condition that develops gradually as the person's creativity and effectiveness erode into fatigue, skepticism and an inability to function productively.

Maslach and her colleagues developed a method for assessing burnout as a multidimensional construct that went beyond mere exhaustion (Maslach and Jackson, 1981; Maslach & Leiter et al., 2008).

Maslach identified the areas that contribute to people's experience of well-being. They are as: *(i) Exhaustion (Ex):* Exhaustion refers to "a consequence of intensive physical, affective and cognitive strain, for example as a long term consequence of prolonged exposure to certain demands". It includes references to fatigue, but do not make direct reference to people as the source of those feelings.

(ii) Cynicism (CY): This is the indifferent attitude towards the work.

(iii) Professional Efficacy (PE): This includes the social and non-social aspects of occupational accomplishment.

Literature Review

Job Design

Hackman and Oldham (1974) began by searching for the basic psychological states that promote high-performance motivation and satisfaction at work.

The Job characteristics model identifies autonomy (along with the task significance, skill variety, task identity and feedback) as contributing to the internal motivational potential of a job (*Hackman and Oldham, 1976*).

Employees having jobs high on certain core job dimensions such as autonomy, variety, task identity, task significance and feedback experience a sense of meaning, derive a sense of personal fulfilment and motivation (Kahn, 1990) and as a result, feel more satisfied with their job (Loher et al., 1985) and show greater attachment towards their organization (Flynn and Tannenbum, 1993).

Hackman and Oldham's (1976) job characteristics theory describes the relationship between job characteristics and individual response to work.

Friedman and Greenhaus (2000) revealed that the core job characteristics namely autonomy, skill variety, skill identity, task significance and feedback (Hackman and Oldham, 1976) associated with a job provide a perception of added resource base to a job incumbent. These resources embedded in a job may increase the perceived control over work and family matters, provide motivation and energy and help in acquiring new skills which may facilitate better performance.

Bontis and Serenko (2007) suggested that job characteristics contribute to employee satisfaction, and through that, to organizational efficiency and customer focus.

Burnout

Kickul and Posig, (2001); Maslach and Jackson, (1981); and Maslach et al., (2001) emphasized that Burnout results in reduced productivity, higher absenteeism and an intention to quit one's job.

Schaufeli, (2006); Schaufeli and Bakker, (2004), Schaufeli et al. (2008) emphasized that the systemic imbalance of demands to resources promotes exhaustion and reduces professional efficacy while alienation from corporate values reduces providers' involvement in their work or their service recipients.

Job burnout a serious outcome in itself, it also has been linked with reported intentions to leave jobs (*Burke and Greenglass, (1995); Burke et al. (1984); Jackson and Maslach, (1982); Lee and Ashforth, (1996)*, as well as turnover and job dissatisfaction (*Maslach et al., 1996*). *Schaufeli and Bakker (2007), and Henkens & Leenders (2010)* found that burnout may arise as a result of problems employees may have with others. A lack of peer support may heighten the risk of burnout

Hypotheses

The study has been initiated to verify the following hypotheses:

H1: There is significantly negative relationship between job design and burnout of employees. Morever, there is significantly negative relationship between dimensions of job design and dimensions of burnout of employees.

H2: There is significant impact of Job Design on burnout of employees.

H3: There is significant impact of job design on the dimension of burnout (Exhaustion) of employees.

H4: There is significant impact of job design on the dimension of burnout (Cynicism) of employees.

H5: There is significant impact of job design on the dimension of burnout (Personal Efficacy) of employees.

Research Methodology

Sample: The sample for the study consists of 300 employees working at different managerial levels. Data will be collected from managers and supervisors working in FMCGs and manufacturing industries.

Procedure: Questionnaires were distributed among employees through personal contacts within sampled organizations. Accompanied each questionnaire a letter explaining the purpose of the study was there. Along with the questionnaires there was a Proforma completed by the employees regarding demographic variables as: Name, Age, Sex, Educational Qualification, Tenure, Rank and Marital Status.

Instruments: Following questionnaires were used to conduct the study:

(i) Job Design: To describe the job within organizations, Scale developed by Hackman and Oldham (1976) was used. There are five dimensions in this scale to describe the job in any organization as Skill variety, Task Identity, Task significance, Autonomy and feedback. The scale has 23 items which has been measured on 5 point scale and the score ranges from 1= very non-descriptive to 5 = very descriptive. The reliability is 0.56 (minimum) to 0.88 (maximum).

(*ii*) *Burnout:* To measure burnout, Maslach Burnout Inventory (MBI) developed by Maslach C., Jackson S., & Leiter M.P. et.al (1996) was used. The scale measures dimensions of Exhaustion (0.65), Cynicism (0.60) and Professional Efficacy (0.67). It is a 16 item scale which will be rated on a 7 point scale and the score ranges from 0= never to 6= everyday. The internal consistencies of the dimensions have been defined within the parentheses.

Analysis of Results: For the analysis of results, means and standard deviations were calculated. Furthermore, Pearson correlation and Stepwise Regression Analysis was used to study the relationships between the variables, and other suitable techniques can also be used as per the requirement of the research. For the analysis of data SPSS v. 17 was used.

Results & Analysis

Descriptive statistics of the variables that have been examined in the study are reported in Table 1, including sum, means and standard deviation.

H1: There is significantly negative relationship between Job Design and Burnout of employees. And also there is significant relationship between dimensions of Job Design and dimensions of Burnout of employees.

Table 2 represents a significantly negative relationship between Job design and burnout (on over-all basis) with the calculated r=-0.652(significant at .01 level). The correlation between the dimensions of job design and dimensions of burnout has been discussed separately in a more detailed fashion in Table 1, under the pertinent headings.

Mean, Standard deviation and Pearson Correlation

Table 1

Variables	Mean	SD	SV	TI	TS	AU	FB	D	EX	CY	PE	во	
SV	3.3	0.57	1										
TI	3.43	0.6	.11	1									
TS	3.73	0.69	.14*	.35**	1								
AU	3.79	0.72	.16**	.41**	.62**	1							
FB	3.4	0.51	.27**	.16**	.45**	.38**	1						
JD	46.39	16.25	.35**	.49**	.75**	.86**	.72**	1					
EX	7.13	6.01	.05	14*	36**	38**	09	33**	1				
CY	9.38	6.62	03	37**	52**	62**	24**	58**	.62**	1			
PE	8.84	6.33	25**	35**	44**	51**	43**	61**	.17**	.47**	1		
во	8.45	4.97	09	37**	56**	65**	33**	65**	.75**	.89**	.70**	1	
		 	 										+

**Significant at .01 level, * Significant at .05 level.

SV-Skill Variety, 77-Task significance, TS-Task Significance, AU-Autonomy, FB- Feedback, JD- Job Design, EX- Exhaustion, CY- Cynicism, PE- Personal Efficacy, BO-Burnout

Pearson Correlation between Job design and Burnout of Employees on Over-all Basis

Table 2							
Variables	JD						
BO	652**						

**. Correlation is significant at the 0.01 level (2-tailed)

A glance of correlations shown in **Table 1** reveals that all the dimensions of Job design as: SV, TI, TS, AU and FB significantly correlate with the dimensions of burnout. It can be noted that there is low correlation between Skill Variety (SV) and the dimensions of burnout (EX & CY) with the calculated r-values as: .05 and -.03 respectively, while there is significantly negative correlation with PE with the calculated r –value as -.24 (significant at 0.01 levels).

Another dimension i.e. Task Identity (TI) is significantly negatively correlated with dimensions of burnout (EX, CY & PE) with the calculated correlation values as -.14 (significant at 0.05 level), -.37 and -.35 (significant at 0.01 level) respectively.

Another dimension i.e. Task significance (TS) is significantly negative correlated with dimensions of burnout (EX, CY & PE) with the calculated correlation values as: -.36, -.52 & -.44 (significant at 0.01 level) respectively.

There is also significantly negative correlation between Autonomy (AU) with dimensions of burnout with the calculated r-value as: -.38, -.62 &-.51 (significant. at .01 level) respectively.

Last dimension of job design, Feedback (FB) is also in significantly negative correlation with the dimensions of burnout (CY & PE) with the calculated correlation values as: -.24 & -.43 (significant at 0.01 levels) respectively.). It can also be noted that the correlation between FB and EX is low with the calculated r-value as: -.09.

H2: There is significant impact of Job Design on Burnout of employees.

In order to examine the extent to which weighted combination of various variables included in the study predicts burnout of employees, stepwise regression analysis was conducted on the observed data. Although the bi-variate correlation has dealt with the degree of relationship among all the measures, but it cannot be interpreted directly as an index of the extent to which scores on burnout are influenced by other variables, that is, job design. Therefore, multiple regression analysis has been worked out by using stepwise method. On an over-all basis, job design predicted burnout with calculated R as .652(F=219.78, p<.05, beta=.652), and explained 42% of variance in predicting burnout as shown in Table 3.

Table 3

Multiple Regression Analysis for the Prediction of Burnout of Employees, with the Independent Variable as Job Design and Dependent Variable as BO, on Over-all Basis

Variables	R	\mathbf{R}^2	Adjusted R ²	SEm	F-value	DF	Beta
D.V: BO	.652	.424	.423	3.78	219.78	229	.652
I.V: JD							

* Significant at .05 level. BO-Burnout, JD- Job Design

H3: There is significant impact of job design on the dimension of Burnout (Exhaustion) of employees.

The above criteria allowed entry of five predictors as: Skill Variety, Task Identity, Task significance, Autonomy and Feedback and all these variables jointly contributed in the prediction of dimensions of burnout.

On the basis of result Table 4,the results of stepwise multiple regression reveal that among all the dimensions of job design, SV predicted EX, with multiple R as .05 (F= .66, p<.01, beta=.05, R^2 =.002); TI with multiple R as .15 (F= 3.35, p<.01,beta=.14, R^2 =.02); TS with multiple R as .38 (F= 16.17, p<.01, beta=.37, R^2 =.14); and AU with multiple R as .43 (F= 16.94, p<.01,beta=.29, R^2 =.19). FB with multiple R as .44 (F= 14.11, p<.01, beta=.10, R^2 =.19). The five dimensions jointly accounted for 19% of variance in the prediction of exhaustion. As a whole, autonomy is the strongest predictor of exhaustion with the calculated Beta value as .30.

H4: There is significant impact of job design on the dimension of Burnout (Cynicism) of employees.

The five dimensions of job design predicted CY while SV predicted CY with multiple R as .03 (F= .26, p<.01, beta=.03, R²=.001); TI with multiple R as .37(F= 23.41, p<.01, beta=.37, R²=.14); TS with multiple R as .56 (F= 44.36, p<.01, beta=.45, R² =.31); and AU with multiple R as .66 (F= 55.99, p<.01, beta=.46, R² =.43). FB with multiple R as .66 (F= 44.81, p<.01, beta=.04, R² =.43). The five dimensions jointly accounted for 43% of variance in the prediction of cynicism. As a whole, autonomy is the strongest predictor of cynicism with the calculated Beta value as .47.

H5: There is significant impact of job design on the dimension of Burnout (Personal Efficacy) of employees.

PE has been predicted by SV with the calculated R as .24 (F= 18.94, p<.01, beta=.24, R^2 =.06); TI with multiple R as .40 (F= 28.85, p<.01, beta=.32, R^2 =.16);TS with multiple R as .51 (F= 34.95, p<.01, beta=.34, R^2 =.26); and AU with multiple R as .57 (F= 34.87, p<.01, beta=.33, R^2 =.32). FB with multiple R as .60 (F= 33.27, p<.01, beta=.23, R^2 =.36). The five dimensions jointly accounted for 36% of variance in the prediction of cynicism. As a whole, autonomy is the strongest predictor of personal efficacy with the calculated Beta value as .29.

Table 4	
Stepwise Regression Analysis for the Prediction of Burnout of Employees, with t	he
Independent Variable as JD and Dependent Variable as Burnout	

Variables	R	\mathbf{R}^2	Adjusted	SEM	F-	DF	Beta
			\mathbf{R}^2		value		
D.V: EX							
SV	.05	.002	001	6.06	.66	298	.05
SV, TI	.15	.02	.02	6.01	3.35*	297	.06, .14
SV, TI, TS	.38	.14	.13	5.64	16.17*	296	.10, .02, .37
SV, TI, TS, AU	.43	.19	.18	5.50	16.94*	295	.12, .04, .22,
SV, TI, TS, AU, FB	.44	.19	.18	5.49	14.11*	294	.29
							.10, .0, .25,
							.30, .10
D.V: CY							
SV	.03	.001	.002	6.63	.26	298	.03
SV, TI	.37	.14	.13	6.18	23.41*	297	.01, .37
SV, TI, TS	.56	.31	.30	5.53	44.36*	296	.06, .22, .45
SV, TI, TS, AU	.66	.43	.42	5.03	55.99*	295	.09, .12, .20,
SV, TI, TS, AU, FB	.66	.43	.42	5.03	44.81*	294	.46
							.08, .12, .21,
							.47, .04
D.V: PE							
SV	.24	.06	.06	6.15	18.94*	298	.24
SV, TI	.40	.16	.16	5.81	28.85*	297	.21, .32
SV, TI, TS	.51	.26	.25	5.47	34.95*	296	.17, .21, .34
SV, TI, TS, AU	.57	.32	.31	5.25	34.87*	295	.15, .14, .16,
SV, TI, TS, AU, FB	.60	.36	.35	5.10	33.27*	294	.33
							.11, .15, .10,
							.29, .23

Discussion

The present study examined the inverse relationship and impact of job design on burnout of employees. The result showed that there is negative relationship between job design and burnout. A plausible explanation may be that, positive job designing (Skill variety, task identity, task significance, autonomy and feedback) lead to reduced level of burnout among employees and feel empowered for decision making which further generate the feelings of being accepted and more participation in professional and personal domains of life. Evidence of such a relationship among job design and burnout can also be found in the study conducted by (Bakker and Demerouti, 2007; Bakker et al., 2005; Xanthopoulou et al., 2007). As discussed by Bakker and Demerouti, (2007), job design is likely to be critical for employee wellbeing, because employees with sufficient job autonomy have more opportunities to cope with stressful situations and decide when and how to respond to job demands. Consequently, they are faced with less burnout.

This study showed that job design is highly correlated to burnout. Thus a decrease in the level of job design could precede burnout therefore serve as a rapid alert system. In this case, managers should be surveyed regarding their job satisfaction at regular intervals, and managers with lower job satisfaction should receive special attention.

Conclusion

The current study makes significant contribution to knowledge and practice in this field. There is only sparse literature concerning the relationships between job design and burnout, and the present article significantly enriches our understanding of this issue. Furthermore this study helps to resolve the ambiguity regarding the relationships between job design and burnout. Previous studies examining the relationship between job design and burnout have produced variable results, while those of the present study confirm that job design and its dimensions have negative impact on burnout for the managers, both theoretically and statistically.

Research Limitations and Future Research

This study also offers several avenues for future research. Although the study explored causality, this can only be fully tested using data collected at different time points. Therefore, researchers could consider using longitudinal investigations to demonstrate the causal relationship reported here. Of course, it is too early to generalize the results outlined here to all managers in FMCGs. More research is needed before we reach strong conclusions about the extent of burnout in the industry.

The data obtained from a sample of professional and managerial men, provided considerable support for the general hypothesis linking job design with burnout. The findings must be interpreted in the light of the study's limitation that the sample size is low and it has been selected from NCR, India only. It would be more appropriate to increase the sample size and have diversified of the sample.

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Employees' Perception towards Innovative Climate in Public Utility Enterprises: A Comparative Analysis

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Abstract

Over the last two decades, globalization and rapid technological advancements have created a situation where organizations encounter various challenges like varying customer demands, increased competition etc. To keep pace with these changes and to maintain a competitive edge, organizations need to innovate that is to explore and implement new ideas. Innovation is broadly seen as an essential component of competitiveness, embedded in the organizational structures, processes, products, and services within a firm. If developing countries are to compete effectively in the world market, they must make every effort to develop innovative practices. The aim of this research is to study Innovation Climate and investigate the effect of Innovation climate on the types of innovation in the Public Utilities Enterprises. The global changes have forced the Public utility enterprises to realise the significance of need for Innovation. The Public utilities enterprises need Innovation as a means to create their competitive advantages to compete successfully. This paper presents a quantitative study in measuring the perception of Public utilities enterprises employees towards the support for Innovation and the types of Innovation in three public utilities organisations i.e Public Health Engineering (PHE,) Public Works Department (PWD) and Power Development Department (PDD) in Jammu. Against these backgrounds, the present study is aimed primarily to study Innovation climate and types of innovation in the Public Utilities Enterprises. Findings reveal that level of perception of employees is more in case of *PDD in comparison to other two utilities.*

Keywords: innovation climate, public utility, competitiveness.

Introduction

Organisations conducting business in the global environment are facing significant competition. The search for competitive advantage has led to the recognition of Innovation as a vital ingredient for survival and profitability. The word Innovation is derived from the Latin word Novus, and defined as "a new idea, method or device" or "the process of introducing something new" (Gopalakrishnan & Damanpour, 1994). Innovation refers to the introduction of any new product, process, or system into an organisation. (Drucker, 1993) states, Innovation is the application of knowledge to produce new knowledge. Innovation is about the successful exploitation of new ideas and is essential for sustained competitiveness and wealth creation. Innovation is defined as any idea, practice, or material artefact perceived as new by the individuals involved (Zaltman *et al.*, 1973).

Luecke and Katz (2003), has given a convenient definition of Innovation, Innovation is understood as the successful introduction of a new thing or method. Innovation implies bringing something new into use, change in the way of doing things, the creation of the new or the re-arranging of the old in a new way and the act of introducing something new or doing something in a different way. To survive in current competitive global business environment,

enterprises need a regular stream of Innovations to succeed (Hellriegel , 2001; Simon, 1997; & Porter, 1980). Peters & Waterman (1982) Innovative enterprises are those which continually are responding to change of any sort in their environment and are characterized by creative people developing new products and services. Innovation is widely recognised as a driving force for a firm's economic growth (Gann, 2003). Innovation requires at the workplace which is the preconditions for success. Baregheh et al. (2009), states that Innovation is the multi-stage process whereby organisation transform ideas into new/improved products, service or processes, in order to advance, compete and differentiate themselves successfully in their marketplace.

Successful Innovation requires good management, appropriate finance skills and a supportive overall climate. (Ekvall, 1996) defines innovation climate as an attribute of the organisation, composed of behaviours, attitudes and feelings, which characterizes life in the organisation. The concept of innovation climate was given by Neil Anderson and Michael West, 1998 in relation to assessment of climate in work teams, and is operationalized in the Team Climate Inventory. Innovation climate can be seen as an attribute that captures the openness to new ideas and hence, an organisation orientation towards Innovation (Hurley and Hult 1998). The new ideas can be in the form of product, services, processes, markets or organisation changes.

Schumpeter (1983) defined Innovation as encompassing the entire process, starting from a kernel of an idea continuing through all the steps to reach a marketable product that changes the economy. Hunter (2005) proposed that innovation occurs as a result of the interplay between individual and work-context factors, the most notable factor is the organizational climate. There is also some research pointing to the importance of organizational climate for the successful implementation of change initiatives or innovation in organizations (Huq and Martin, 2000). It is presumed that strategies of innovation influences employees' sense of engagement, identification and belonging as well as performance (Hurley and Hult, 1998; Loof and Heshmati, 2002). Organizational Innovation climate influences employees Innovative attitudes, beliefs, values, motivations and behaviors, and finally organizational Innovative performance (Amabile et al., 1988).

Innovation has become the industrial religion of the late 20th century. In the dynamic environments with rapid globalization and advances in technology, innovation climate play an important role of in long-term survival and development of organizations. Level of innovation is one of the most important potentials for firms to gain the sustainable competitive advantage and high benefit return. (Pawl W Hyland, 2004) states that the pressure of competition, which at one time makes some firms innovators, forces others, who are driven by the instinct of survival and growth, to seek to catch up and remove the initial competitive advantage of the innovating firms. Competition and long-term growth are achieved through efficient innovation management i.e. the level of innovation. Relevant studies have has shown that organization success measured by growth, profitability, and productivity is highly correlated with innovation climate and level of innovation (Baldwin, 1994, Bommer, 2002). Not promoting innovative projects and activities will have a negative effect on organizational performance (Loof & Heshmati, 2002).

Significance of Innovative Climate for public utilities

Innovation should be a core activity of the public sector: it helps public utilities to improve performance and increase public value; respond to the expectations of citizens and adapt to the needs of users; increase service efficiency and minimise costs. Effective public services depend on successful innovation climate – to develop better ways of meeting needs, solving problems, and using resources and technologies. It should be seen as a core activity:

- To increase the responsiveness of services to local and individual needs;
- To keep up with public needs and expectations.

Without Innovation public services costs tend to rise faster than the rest of the economy. Also, the inevitable pressures to contain costs can only be met by forcing already stretched staff to work even harder. There is a broad assumption that the public sector is inherently less innovative than the private sector. Imputed reasons include a lack of competition and incentives; a culture of risk aversion and bureaucratic conservatism; a workforce which is unresponsive to, and unwilling to change. The main motivation for innovation climate is the need to maintain or increase profitability, which in turn provides an incentive to innovate to cut costs, improve market share and to create new products and services. Innovation climate, the degree of support and encouragement an organisation provides to its employees to take initiative and explore innovative approaches is predicted to influence the level of actual innovation in that organisation. There are many different Level of innovation, and Formalization Innovation (Gallouj, 2002).

In short, in this globalized landscape, changing comparative knowledge advantage and the availability of cutting edge technologies, Innovation at lower costs are becoming critical factors in the race to achieve economic competitiveness. Less-favoured countries and regions are often those that lack the capacity to Innovate and, consequently, that lack the ability to improve their positions in today's competitive global market. Innovation climate is required for the improvement of processes and services by finding new ways to solve a problem, retaining existing customers and increasing customer base, enhancing jobs by making tasks easier faster and more enjoyable which in turn helps in achieving great results.

Scope of the Study

The scope of this study extends to the Public utilities enterprises. For the purpose of this study 3 public enterprises are chosen namely PDD (Power Development Department), PHE (Public Health Engineering), and PWD (Public works Department). The study was conducted in Jammu city. The respondents are the employees working in the organisations.

Objectives

- 1. To study the dimensions of innovation climate in the select organizations.
- 2. To examine the relationship between the demographic characteristics of the employees and innovation climate.
- 3. To study the type of innovation in the Public utility organizations.
- 4. To study the relationship between innovation climate and the level of innovation in the organization.
- 5. To study the effect of innovation climate on the level of innovation in the select organizations.

Review of Literature

The current Literature demonstrates that there exists a strong relationship between Innovation climate and level of Innovation (Liorens-Montes and Verdú-Jover, 2002). Innovation is a key ingredient in building high performance in organisations (Damanpur and Evan, 1984). Research literature embodies adequate evidence to infer that for high organisational performance, Innovation is much more important today than it was in the past and that it forms a core competency for the 21st century organizations (Ekanem, 2001). Recent research literature shows that Innovation is a double- edged sword (Hall and Vredenburgh, 2003). Innovative organizations are characterized by an orientation toward creativity and innovation, support for their members in functioning independently in the pursuit of new ideas (Kanter, 1983; Siegel and Kaemmerer, 1978), and a tolerance for diversity among their members (Siegel and Kaemmerer, 1978). It has been widely accepted that leadership play a key role in determining Innovation in organisations (Montes *et al*, 2005; Nam and Tatum, 1997). High quality Leadership is a major asset of an organization. Conversely, poor leadership not only affects the morale but may also give rise to complacency, failure to respond to markets, poor strategic choices and many other evils.

The immediate effects on market valuations, when key leaders leave or join organizations, can be measured in real value (Andrew Mayo., 2000). Effective leadership is a critical factor to enhance Innovation. In fact, without effective leadership very few other factors will work for success of Innovation in an organization. Leaders have a big part to play in enhancing organizational Innovation. It is the task of organizational leaders to provide the climate that nurtures and acknowledges innovation at every level (Martin and Terblanche et. al., 2003). Leadership should also be in a position to balance employee's freedom and responsibility, without domination or control, while at the same time they have to show concern for employee's feelings and needs, generously recognize creative work and encourage employees to voice their own concerns, provide feedback, and facilitate skill development (Amabile, 1998). There should be continuous development programs in the organization to improve employee's skills and to develop their knowledge.

Organizational climate that supports continuous development should encourage creativity and innovation (Binshan Lin, 2007). By focusing on being inquisitive, keeping knowledge and skills up to date and learning creative thinking skills, Innovation climate can be created and maintained (Elspeth Mc Fadzean., 1998). An organizational climate that has an effective continuous development programme for enhancing employee's creativity and Innovation is in better position in developing new technologies (Elspeth Mc Fadzean., 1998). In order to be competitive in the world of globalization and liberalization the organizations have to use advanced technology, technical workforce, and continuous development programmes for innovations (Rakesh Narain et al, 2004).

It is proposed that when ownerships exist, group members do not limit themselves to the application of previously determined solutions or the solutions of others but are committed to their own work. They are also committed to their organization and participate in their organization's decision-making processes. Ownership exists when group members feel they originate and/or develop the ideas, processes, and procedures with which they work (Campbell, 2000). Employees will be Innovative when they are given a high level of autonomy and control over their own work (King and West., 1985). Management should believe in personnel and encourage them to be more Innovative by allowing them ownership. In other words empowering them instead of controlling them (Martin and Terblanche et. al., 2003). The literature study reveals that the degree to which employees have freedom and authority to participate in decision making and solving problems determines the level of ownership, which is positively related to the level of creativity and innovation in an organization (Morris W, 2005). An organization that is innovative, members of the system have a positive attitude toward diversity, the system itself responds positively toward Innovation, and few behaviors are judged as being deviant (Andriopoulos C, 2000).

The fierce competition situation is arising because of globalization and privatization and forcing the organizations across the globe to realize that their survival is not feasible in the absence of Innovative practices. Competition and long-term growth can be achieved through Innovation, efficient technology management, and technological progress. The organizations with greater innovation will achieve a better response from the environment, obtaining more easily the capabilities needed to increase organizational performance and consolidate a sustainable competitive advantage (Hurley and Hult, 1998).

Research Methodology

The study has been conducted among the employees of the public utility organisations. This study will be helpful in evaluating the perception of employees of the select organisations towards the support for innovation and establishes a link with the various types of innovation. The research study was conducted by collecting both primary and secondary data. Primary data have been collected by a standardised questionnaire (*source: Siegel Scale of Support of Innovation-1978*). Secondary data was obtained from various books, journals, published papers, newspapers, websites etc. The sample is randomly selected. The research has been conducted by selecting a total of 90 respondents from Jammu city. The questionnaire contained a total of 63 (59+4) items with Five-point Likert-type scale was used for each question of the questionnaire anchored by "strongly agree", "agree", "neutral", "disagree", "strongly disagree" respectively referred to points 5, 4, 3, 2 and 1. The analysis has been done by taking various items under five dimensions viz. 'Continuous Development', 'Leadership', 'Ownership', 'Consistency', 'Norms of Diversity'.

Data Analysis and Interpretation

The study deals with the analysis of innovation climate in the Public utility organisations and makes comparison between different departments i.e., PHE, PWD, PDD. The analysis and interpretation of the data collected through the Questionnaire have been done by calculating the mean score of the responses given by the employees.

Demographic Profile

For the purpose of the study the demographic profile of the employees, simple percentage method was used. The result shows that:

More than half of the respondents were males (78%) and rest were females (22%).

Gender	ender (78%) Male		(22%) Female				
	In terms of age majority of respondents (9%) are below 30 years, (15%) are 30 -39 years, (37%) are 40 -49 years, (39%) are 50 -60 years.						
Age	Age (9%) Less 30 years (15%) 30-39 years (37%) 40-49 years (39%) 50-60 Years						· /
	an half (57. - graduate.	1 %) of t	he emplo	oyee are gradua	te , 2	5.7% are under g	graduate and 11.4 %
Level O	f	(25%)		(57 %) Gradua	ate	(18%) Post- 0	Graduate
Education Under							
	Graduate						
	In terms of position in the organisation (17%) of the employees are at top level, (47%) are at						
Executiv	ve level and	(36%) ar	e at Mid	dle level.			

Encoutive level und	(3070) are at 111a		
Position	(17%) Top	(47%) Executive	(36%) Middle

In terms of number of years within current organisation (16%) respondents have their tenure ranging between 1-6 years, (24%) ranging between 6-12 years, (28%) ranging between 13-20 years and (32%) more than 20 years.

	· /				
No. Of Y	lears ((16%)1-6	(24%) 6-12	(28%) 13-20	(32%) 20 +
Within C	Current	Years	Years	Years	Years
Organisa	tion				

Continuous Development

The descriptive statistics of all the items relating to this dimension indicates that the grand mean value of the PDD is greater than the mean values of PHE and PWD as presented in the table. The computation presented in Table 1, depicts that the PDD is taking adequate initiatives and measures to generate continuous development for their employees as compared to PWD and PHE The average score clearly indicates that the PDD is always moving towards the new ideas, open, flexible and responsive to change.

Table 1

	CONTINUOUS DEVELOPMENT (F1)	Mean Value		
		(PHE)	(PWD)	(PDD)
1.	Development of new answers.	3.2	4.0	4.1
2.	Flexible and continually adapting change.	2.8	3.8	4.6
3.	Re-examine the basic assumptions.	2.5	3.6	3.9
4.	Trying out new ideas.	2.5	3.9	4.3
5.	Problems and tasks, handled constructively.	3.3	3.7	3.9
6.	Open and responsive to change.	2.9	3.9	4.6
7.	Permanent solution to problem.	4.1	3.6	4.2
	Little room for change.	2.9	3.2	4.6
	Grand Mean Score	3.02	3.7	4.3

Leadership

The descriptive statistics of all the items relating to this dimension indicates that the mean value of the PDD is greater than the mean values of PWD and PHE as presented in the table. The computations are presented in Table 2, depicts that the Leadership in PDD supports the initiation and the development of new ideas throughout the system and ensures the diffusion of power throughout the system. It supports the personal development of individual members, and respects member's capacity to function creatively.

	LEADERSHIP (F2)	Mean Value			
	LEADERSIIII (F2)	(PHE)	(PWD)	(PDD)	
1.	Creativity respected by Leadership.	3.2	4.0	4.2	
2.	People in charge get credit for others ideas.	4.1	3.9	4.0	
3.	One person or group, telling others what to do.	4.6	4.0	4.3	
4.	Role of Leader is supportive.	3.2	3.5	4.0	
5.	Top management influence.	4.0	4.3	4.1	
6.	The leadership acts as if not creative.	3.0	3.6	3.9	
7.	Assistance in developing new ideas.	2.7	3.8	4.0	
8.	New ideas can come from anywhere and equally well received.	3.3	3.7	3.9	

Table 2

9.	Encouraged to develop own interests	3.5	3.7	3.5
8.	Superiors encouraged opinions and ideas.	3.6	4.1	4.3
9.	Original ideas respected by those at the top.	3.8	4.3	4
10.	Individual independence is encouraged in this organization.	3.7	3.6	4.2
11.	One individual is usually the originator of ideas and policies.	4.3	3.4	4.0
12.	The power of final decision traced to the same few people.	4.0	3.7	4.2
13.	The leader's "pets" are in a better position.	4.1	3.5	4.4
14.	Follow orders that come down through channels.	4.4	4.1	4.6
	Grand Mean Score	3.7	3.8	4.1

Ownership

The descriptive statistics of all the items relating to this dimension indicates that the mean value of the PDD is greater than the mean values of PHE and PWD, as presented in the table. The computation is presented in Table 3, depicts that group members of PDD, feel they originate and/or develop the ideas, processes and procedures with which they work. Ownerships exist in PDD the employees do not limit themselves to the application of previously determined solutions or solutions of others, but are committed to their own work.

	Table 3				
	OWNERSHIP (F3)	Ν	Iean Valu	ie	
	Ownershif (F3)	(PHE)	(PWD)	(PDD)	
1.	Personally identify with the ideas with which I work.	3.0	3.8	4.3	
2.	I help make decisions here.	2.9	3.3	3.9	
3.	I really don't care what happens to this organization.	3.1	3.3	3.7	
4.	I am committed to the goals of this organization.	3.5	4.1	4.3	
5.	My goals and the goals of this organization are quite similar.	3.8	3.7	4.0	
6.	In this organization we tend to stick to tried and true ways.	3.3	4.0	3.2	
7.	On the whole, I feel a sense of commitment to this organization.	3.9	4.0	4.3	
8.	The people here are very loyal to this place.	3.5	4	4.2	
9.	I have the opportunity to test out my own ideas here.	2.8	3.9	4.0	
10.	I feel a real sense of responsibility for my work.	3.2	4.0	4.3	
11.	Nobody asks me for suggestions about how to run this place.	2.4	3.7	4.1	
12.	I have a voice in what goes on in this organization.	2.6	3.8	4.2	
13.	People here try new approaches to tasks	3.0	3.6	4.2	
14.	I mostly agree with how we do things here.	3.1	3.7	4.0	
15.	These aren't my ideas, I just work here.	4.2	3.9	4.2	
	Grand Mean Score	3.2	3.7	4.06	

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Norms of Diversity

The descriptive statistics of all the items relating to this dimension indicates that the mean value of the PDD is greater than the mean values of PWD and PHE as presented in the table. The computation are presented in Table 4, depicts that the employees of the PDD have a positive attitude towards toward diversity, the system responds positively toward creativity, and few behaviours are judged as being deviant.

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	NORMS OF DIVERSITY (F4)	N	Mean Value		
	NORMS OF DIVERSITT (F4)	(PHE)	(PWD)	(PDD)	
1.	Solve the same problem in different ways.	2.8	3.5	4.0	
2.	Creativity is encouraged here.	3.1	4.0	4.4	
3.	Deal with problems in the same way.	4.2	4.1	4.0	
4.	Encouraged to be different.	2.4	4.0	3.8	
5.	A person can't do things without provoking anger.	3.4	3.7	3.3	
6.	Think the way the rest of the group does.	4.1	3.9	4.3	
7.	Creative efforts are usually ignored here.	3.9	3.9	4.3	
8.	Person can get into trouble by being different.	2.9	3.4	4.2	
	Grand Mean Score	3.3	3.8	4.0	

Table 4

Consistency

The descriptive statistics of all the items relating to this dimension indicates that the mean value of the PDD is greater than the mean values of PHE and PWD, as presented in the table. The computation are presented in Table 5, depicts that there is consistency between PWD processes and desired results. Employees of this department are sensitive to the notion that the way in which something is accomplished can have immediate and unintended consequences that may conflict with the objective of the activity. Employees of this department are sensitive to the notion that the way in which something is accomplished can have immediate and unintended can have immediate and unintended consequences that may conflict with the objective of the activity.

CON	CONSISTENCY (F5)			Mean Value			
CON	CUINSISTEINUY (FS)		(PWD)	(PDD)			
1.	People don't practice what they preach.	3.5	3.2	3.8			
2.	Sometimes the way things are done makes matters	3.8	4.0	3.7			
	worse.						
3.	The leaders talk one game but act another.	3.8	3.5	3.9			
4.	Work in this organization is evaluated by results.	3.2	3.8	4.1			
5.	The methods used seem well suited to stated goals.	4.1	3.9	4.4			
6.	The way things are taught is as important as what is	3.8	3.5	3.7			
	taught.						
	Grand Mean Score	3.7	3.6	3.9			

Table 5

Overall Mean Score of Innovation Climate

As given in the table 6, the Grand Mean score were calculated which comes out to be Continuous Development (3.8), Leadership (3.9), Ownership (3.6), Norms Of Diversity (2.3) and Consistency (3.1) respectively of PHE, PWD and PHE departments.

Table	6
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INNOVATION CLIMATE	Grand Mean
Continuous Development (F1)	3.8
Leadership (F2)	3.9
Ownership (F3)	3.6
Norms Of Diversity (F4)	2.3
Consistency (F5)	3.1

Thus it can been seen that the components of innovation climate i.e Continuous Development, Leadership, Ownership, Norms of Diversity, and Consistency individually affects the innovation climate of the employees but the impact of Continuous Development, Leadership, Ownership, alone cannot lead to the significant results. It is more Norms of diversity and Consistency which need to be improved in order to enhance the overall innovation climate of the organisation.

Comparative Analysis of Innovation Climate in the Select Organisations:

Table 7 depicts, over all mean scores of the three public utilities enterprises viz 3.38 in PHE, 3.72 in PWD and 4.072 in PDD. This reveals that employees' perception level pertaining to innovation climate in PDD is much highest than the other two public utilities enterprises i.e, PHE and PWD. This requires more efforts on the part of PHE and PWD to bring better innovation climate in order to have competitive edge.

Table 7					
VARIABLES	PHE	PWD	PDD		
Continuous Development	3.02	3.6	3.9		
Leadership	3.7	3.8	4.0		
Ownership	3.2	3.7	4.06		
Norms Of Diversity	3.3	3.8	4.1		
Consistency	3.7	3.7	4.3		
INNOVATION CLIMATE	3.38	3.72	4.072		

Types of Innovation in Public Utility Organisation

As given in the table 7, the Grand Mean score were calculated which comes out to be Formalization Innovation (4.0%), Ad hoc Innovation (3.6%), and Incremental Innovation (3.1) Radical Innovation (2.2%) respectively were calculated.

Table 8	
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LEVEL OF INNOVATION	Grand Mean
Formalization Innovation	4.0
Ad hoc Innovation	3.6
Incremental Innovation	3.1
Radical Innovation	1.2

The above table summarizes the mean rating that indicated the level of Innovation in select organisations. In public utilities organisation there is more formalization innovation.

Spearman's Rank Correlation Coefficient:

For the purpose of the study, the two variables viz. innovation climate and level on innovation has been taken. By using spearman's rank correlation method, the obtained value in table 2 of r=.742. It shows that the relationship further between innovation climate and level of innovation is positive (r=.742)

r	t	Sig
.742 ^a	8.431	.000

Both the variables show a positive relationship among themselves so, the purpose of studying these two variables simultaneously has been served. The two variables are related to each other and mutually dependent on each other. For testing the significance of the relationships t test has been used. The value of t is 8.43. The relationship between the innovation climate and level of innovation is significant. Therefore, on the basis of rank correlation the relation was observed to be positive between the innovation climate and level of innovation. On the basis of t test, it is found to be significant.

Effect of Innovation Climate On level of innovation

Regression analysis for Innovation Climate and level of innovation

Innovation climate has 5 sub-factors i.e Continuous Development, Leadership, Ownership, Norms of Diversity, and Consistency, Now the effect of 5 sub-factors on the level of innovation in the organisation. The results are as under: Here r^2 is equal to .551, which indicates the fit is better. Calculated value of F is 71.083, which shows that regression analysis as a whole is significant.

R ²	F	Sig
.551	6.083	$.000^{a}$

In order to investigate the level of innovation through innovation climate, the regression analysis was done, with level of innovation as dependent variable and following independent variables: Continuous Development, Leadership, Ownership, Norms of Diversity, and Consistency. The regression results in above table indicate that the variables together explain 55% of the variation in level of innovation (R^2 =0.551) and the model is statistically significant at the 0.000 level (*F*-test).

Limitations and Future Research

The sample of the study is relatively small (n=90) and is taken from public utility in Jammu only i.e. PDD, PWD, PHE. They might not reflect the overall result. Therefore further studies with large sample and across different sectors and areas suggested to get more evidences. Analysing and comparing the organisational outcomes can see the different implications of different organisational interventions.

Findings of Survey

Some of the findings are as follows: Respondents rated the Innovation climate in the somewhat favourable range overall, neither highly favourable nor unfavourable. There was some variation among respondents. Men rated the Innovation climate more favourably than did Women. Higher level employees gave slightly more favourable ratings than lower level employees.

- Respondents of over 12 years of experience in the organization serving at higher levels have consistently rated the Innovation climate more favourably than employee belonging to lower level.
- The organization has scored high in the areas of Continuous Development, Leadership and Ownership.
- The organization scored moderate ratings with some variances in areas of Norms of Diversity and Consistency.
- The organization has scored high for Formalization and Incremental Innovation.
- The organization scored moderate ratings for Adhoc Innovation
- The organization has scored low for the Radical Innovation

Conclusion

The general picture emerging out of these findings indicate that overall a favourable Innovation climate exists in the organization. The organization has a pool of professionals which are working for a larger cause and meeting their professional satisfaction. However, the organization shows great deal of transparency in decision making and shares information across levels. The management believes in having a participative approach to decision making. There is enough autonomy to perform one's job. Also the organization offers enough scope for personal and professional growth. The leadership of the origination is approachable and is sensitive to the needs of the employees.

At the same time there are roles and responsibilities to be performed and each one is held accountable for work. There is a great emphasis on continuous development and skill enhancement of the employees. As the organization is in its expansion phase, it promises its employees enhanced roles and responsibilities. The organization needs to plan consistency and norms of diversity so as to optimize the productivity. In case of employees having multiple reporting, job description should be decided jointly by the leaders and made known to the employee. The organizational climate can become conducive to develop potential and competencies of the employees and provide opportunities for fulfilment. There is a need for an enhanced role of leaders who should feel responsible for building a positive, motivating work climate e which would ensure optimum utilization of the capabilities of the employees leading to self and organizational effectiveness.

The organizations with greater innovation will achieve a better response from the environment, thereby obtaining more easily the capabilities needed to increase organizational performance and consolidate a sustainable competitive advantage. Organisation success measured by growth, profitability, and productivity is highly correlated with the emphasis that a firm places on innovation. Climate for innovation as an indicator of the capacity of organizations to become Innovative, i.e, the degree of support and encouragement an organization provides its employees to take initiative and explore Innovative approaches is predicted to influence the degree of actual innovation in that organization.

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Understanding Consumer Psychology via Social Media

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Abstract

In our very core, each of us is a social animal and social media has provided us an outlet to create online communities making it easier to network with others. Hence social media tools have become superb channels for marketers to reach consumers, given their two-way communication format and hence are important to study. An organisation that uses social media is more likely to create relationships with members of its target demographic vis-à-vis one that uses traditional media. The key objective of this paper is to study the influence of this new media on consumer behaviour- the psychology behind it and how and why it's a rich and natural source of consumer insights.

Keywords: Consumer Psychology, Consumer Behaviour, Social Media, Online Communities

Introduction

One of the key findings of the 2011 FICCI-KPMG report is that three-quarters of the global internet population visits social media websites spending an average of almost six hours a month. As per the IMRB-IAMAI Social Media in India-2012 Report, social media usage (72%) ranks second - only after Email (80%) in terms of usage. Essentially, social networking often serves to be among the "First Internet Uses" of Internet in India i.e. besides the usual reasons like Email, Music and Gaming. The Top social media website accessed interestingly as per the report is Facebook, used by 97%, whereas the next places are taken by Google+ and LinkedIn. This data tells us that social media is emerging as a strong medium of communication; companies are increasingly experimenting with various online marketing strategies. Most companies have used social media platforms to establish a large follower base, and are currently trying to convert these fans into paying customers. Dell's and Sony's twitter campaign are some examples. People are no longer asking their neighbours or family members for suggestions before buying any product, instead it is asked through social sites and going through the reviews.

Studying Consumer Behaviour on Social Media

None of the firms can now ignore the social media as all their customers now use social media. Consumers connect with their favourite brands today through the internet over which manufacturers and retailers have no control. Social Media resembles our society in a number of ways, one of them being community affiliation. Just like offline communities (groups existing in our societal setup) influence our actions and ideologies, similarly affiliation to an online community too influences an individual's decision making and choices. Consumers seek approval from others for any choice they make through social media. Earlier, a consumer after narrowing down on her choices would make a final purchase selection and complete her engagement with the brand. In this digital era, the engagement does not stop at the final purchase only, but the consumer remains engaged with the brand through social media after a purchase. Smart marketers must study this consumer choice and decisions. The similarity between consumers earlier and today is that both want a clear brand promise

and a value offering. The only change characterizing the market space today is the touch points.

A McKinsey Quarterly in 2009 introduced consumer's brand engagement through "Consumer Brand Journey". The study revealed that unlike their previous counterparts who used to start with a wide array of brands and narrow them down to the preferred ones, the consumer today uses a less iterative process, thanks to an abundant array of information available on social media and the internet. The research also revealed that the traditional media are only effective during the consideration stage, while the subsequent stages of consumer decision were characterized by various online media. A significant outcome of the research was also that consumers seldom visited the manufacturer's website when making a purchase decision but would visit various social media websites to narrow down on their preferred brand. Marketers must aim at making the customer experience coherent and create a customer experience plan based on company products and target segments. Apple for instance has created aligned product descriptions by eliminating jargons and thus created a wide library of explanatory videos ensuring consistency and accuracy among various touch points. The touch points are increasingly digital today and this offers an opportunity to the marketer to collect and use customer information to create a positive customer experience. The speed, accuracy and interactivity of the digital touch points define the quality of this brand experience. Starbucks, in order to get consumer feedback, came out with "My Starbucks Idea". The site allows users to provide suggestions, which are then voted by the consumers with the most popular suggestion reviewed. Taking this idea a step forward, Starbucks also now offers a "Ideas in Action" blog to update users how their suggestions have made a difference to the company. Drury (2007) opines that due to fragmented nature of the media, the consumer tends to be divided on what are the best destinations for informed and professionally edited content and sites populated with user generated content, and social media offers both of them together.

'Listening' Naturally

There is no doubt that social media influences consumer behaviour, hence it is vital to utilise this new and dynamic media for studying consumer behaviour and generating insights. Social media enables us to tap into a unique panel - quite different from the typical panels that we create in traditional marketresearch. In this unique panel, generally there is no data collected using formal questionnaires. Instead insights are culled out from the interactions between members which could be one to one or one to many. The plan is largely consumer driven and not pre-defined by the researchers. The good thing is that while clients and researchers can trigger dialogues, they cannot control them. The consumers join the group voluntarily and are free to decide whether to respond to any stimulus.

Below is an illustration of reviews from <u>www.mouthshut.com</u>. (A social media site that helps consumers make informed shopping decisions) given by consumers from their natural environments. The reviews contain a wealth of insights ranging from dietary habits, product design, product availability etc. These insights could also serve as forewarnings to take early action and should be useful to Marketing teams of both Britannia Bourbon and Parle Hide and Seek biscuits which compete with each other.

Table 1: Customer Reviews extracted on -Britannia Bourbon Biscuits

"Biscuits form the major consumption of people addicted to the tea and coffee, and to people who have to exercise control on rice intake. There are all sorts of biscuits, sweet, salt, mixture of sweet and salt, cream biscuits, cashew pouted biscuits and there exists a huge list. Of all those varieties Bourbon biscuits enjoy a very special place for their unique taste which is a harmonious mixture of chocolate and sugar. Bourbon biscuits were one of the main weapon my Mom used to keep me calm during any crisis. The Bourbon biscuits which I had were brought straight from the bakery with no trade name or whatsoever.The availability of Bourbon under the trade names like Britannia and Nice created a downfall among the local bakers and they felt depressed losing a lot of customers, but they didn't have to worry for long. "

(Provides insights on - Dietary habits, product sensory aspects & surrogates)

"Bourbon biscuits conjure up childhood idle summer afternoons when I use to sneak away from my nap and grab a few of them from the cookie jar and run to the far corner of the terrace to have them. They were real treats as I unashamedly opened them apart and licked the chocolate off greedily. The biscuits were really chocolaty, crisp on the outside and quite filling.

I still crave for them and keep having them but that magic is lost. the chocolate inside tastes more of flour, sugary rather than chocolaty, and the biscuits are not so crisp nor big in size. But as of now I really can't think of any chocolate biscuits made in India which are similar or better. So we stick to this one. Come to think of it, the Hide and Seek chocochips are quite nice but not replacements for bourbon.

So as long as we don't have an option, I think we will fulfil our desire of chocolate biscuits through bourbon."

(Provides insights on - product sensory aspects and competition)

Table 2: Customer Reviews extracted on -Parle Hide and Seek Biscuits

"In 2001 I had orange flavored hide and seek biscuit. I never used to like the biscuit but

started liking and having Orange flavored ones. Its packing was the same blue color. Later I couldn't find any of those.

Just few years back Orange flavored was released in markets again with an orange packing. But it tasted like an artificial orange flavor, not like the first one.

Now it's just like a dream, did I really have an orange flavored hide and seek with blue packing in the year 2001. Has anyone ever tried those? " (Provides insights on – product packaging & availability)

"Hide & Seek is my favourite biscuit and usually my breakfast also. Here I want to share something to you all. In your biscuit design is perfect (like square) but on top the cross line is there know, that line is somewhat difficult during eating. When we are eating, that time lot of small small pieces fall down (including the chocolate pieces). And also this is difficult to eat children's .We feel like while eating quarter of the biscuit is waste. So you just think about your designs."

(Provides insights on - Dietary habits & product design)

"At first sight, Hide and Seek seems slightly different from other biscuits. The cover is extremely good looking, but the packing itself is not at all great. the biscuits have no protection and are broken when you open the packet. When you first taste it, it seems to be extremely delicious. But then, just when you started to want more, the taste becomes too much and it is much too chocolate. I'm not saying that chocolate is bad. Its just that this has an overdose of chocolate. Its main competitor - Good Day Chocolate Chip - is leaps and bounds ahead of it. Hide and Seek is good for only the first few times of tasting. "
(Provides insights on – product packaging, product sensory aspects & competition)

The 'listening room' at Dell is one tool out of the Swiss knife like social-media marketing strategy that has been adopted by the innovative IT Company. The company has a number of Twitter accounts that announce special deals, a chain of Facebook pages with user-generated content talking about its offerings etc. Dell follows thousands of Tweets every day, in 11 different languages, that mention the company and its products. It filters out those dialogues which are not relevant to its business. The action areas are then sorted and allocated to the relevant unit for speedy resolution. The insights generated have impacted several of Dell's products &services as well as marketing communication. Closer company-customers communication has positively influenced new product and upgrade development. In one year, the Dell Tech Center community has experienced a 270% growth in web site traffic

Social Media's popularity and Mead's Concept of the "Self"

An exploration of Mead's concept of the "self" reveals how it can help a company realize its brand identity. Also how it can ensure the "self" portrayed on say Facebook remains consistent with its understanding, and the public understanding of the brand. In his theory of symbolic interaction, Mead suggested that we create our "self" by figuratively peering through a looking glass to see ourselves as others do, which leads to the creation of an identity(Griffin, 2009, p. 63). As we interact with others, the "self" is constantly changing and adapting to further shape our identities, which, Mead contends, are ultimately based on how others view our "self" (Griffin, p. 63). Mead's concept of the "self" is an apt metaphor for the process in which a Facebook profile is created and refined through communicative engagement with consumers in a digital marketplace. Using Mead's theory of symbolic interactionism, we can identify how social media communities affect consumers' online purchasing behaviour. As evident from the reviews for the 2 biscuit brands (illustrated above), consumers have taken time out to give considerably comprehensive feedback. This is because their 'self' is continuously changing as in "being left dissatisfied with current quality of bourbon biscuits" or "still craving for orange flavoured Hide and Seek biscuits" etc. and they wish to communicate this for therein lies their identity.

There are two methods marketers use to reach consumers via social media: push and pull (Diffley, et al., p. 47). The pull method requires companies to create relationships with social media users, and then use this relationship to draw them to communicate with their brand online (Diffley, et al., p. 47). The push method involves companies pushing their marketing messages to Internet users without first creating relationships (Diffley, et al., p.47). When a company uses the push rather than the pull method, they risk alienating consumers who then express their negative feelings within their social media communities (Diffley, et al., p. 47). Meads theory, if we see closely, talks about the pull method where one has to understand the mind of consumers, develop relationships, talk about the product and then that product can be referred to other consumers. Urban ladder, Yepme, Jabong etc. are some of the companies which are currently doing social media marketing on Facebook by references.

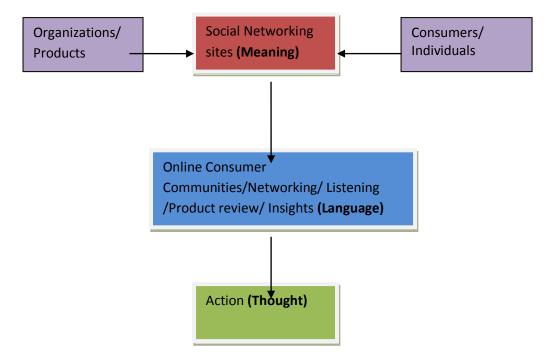
Symbolic Interactionism as thought of by Herbert Blumer, is the process of interaction in the formation of meanings for individuals. Blumer who was a devotee of George H. Mead, was influenced by John Dewey. Dewey insisted that human beings are best understood in relation to their environment (Society for More Creative Speech, 1996). With this as his inspiration, Herbert Blumer outlined *Symbolic Interactionism*, a study of human group life and conduct.

Blumer came up with three core principles to his theory. They are meaning, language, and thought. These core principles lead to conclusions about the creation of a person's self and socialization into a larger community (Griffin, 1997).

The first core principle of meaning states that humans act toward people and things based upon the meanings that they have given to these people or things. *Symbolic Interactionism* holds the principal of meaning as central in human behavior. People join social networking sites because of some meaning they have attached to it, likewise organizations join networking sites because of certain meaning they have attached to it, both the parties have a different purpose of joining – this is the initial stage.

The second core principle is language. Language gives humans a means to negotiate meaning through symbols. Mead's influence on Blumer becomes apparent here because he believed that naming assigned meaning, thus naming was the basis for human society and the extent of knowledge. It is by engaging in speech acts with others and *symbolic interaction*, that humans come to identify meaning, or naming, and develop discourse. Organizations need to interpret the language used by the people on these sites so that they can become the prospective consumers of their products.

The third core principle is that of thought. Thought modifies each individual's interpretation of symbols. Thought, based on language, is a mental conversation or dialogue that requires role taking, or imagining different points of view. Once the language is interpreted, organizations are required to pull the consumers towards the products language. Mead's concept can be summarised in the chart below:



The Old School of Studying Consumer Behaviour

Market Research conducted for studying consumer behaviour is frequently made to stand in a corner and admonished for not being able to deliver the insights desired by the marketer. We stay in a society that becoming more complicated by the day and hence there is a need to adopt an innovative model of thinking and try different approaches. For most of us, Market Research is interviewing a sample of our target audience - often by enquiring them about themselves - to understand their thoughts and then adding up the individual responses, looking for patterns etc. to represent the universe.

Whether we are conducting a qualitative research, a quantitative research or even 'neuromarketing' – we take it for granted that "the individual and what happens between their ears is where the action is". (Earls, International Journal of Market Research Vol. 54 Issue). We need to ask ourselves – what is it that we are researching and is the consumer behaviour individually designed or is it more social. Some researchers may argue that there is a chance for consumers to get conditioned by others' feedback on social media and hence change their own feedback. However we must not forget that social media enables us to observe social interactions and measure their outcomes–instead of mere individual static responses. Moreover, when we conduct a focus group discussion, we are only collecting communication generated from artificial interactions initiated by the moderator. Social media allows us to catch the 'weak signals' that are generally lost in traditional marketing research.

Crowdsourcing and other Consumer Insight Opportunities on Social Media

Gathering feedback about your products and services from the conversations on social media is just one of the application areas - there are a host of opportunities to gather consumer insights. You can also carry out a competition mapping by listening to what customers are talking about your rival brands and why, who is influencing them etc. This will be particularly beneficial if you are a late adopter vis-à-vis your competitors, since it will allow you to learn from your competitors' mistake while formulating your social media strategy.

Crowdsourcing is a contemporary buzz word which stands for tapping into the collective intelligence, ideas, need gaps etc. of your target audience. It is a powerful tool for product innovation and involves considerably lower time and cost as compared to traditional market research methods. Coca Cola harnessed social media to involve its target audience in creating a new flavour of vitamin water. People got a chance to participate in a "flavour creator lab" on Coke's Facebook page. The objective was to create a new type of drink right up to its packaging. Fans voted for their favourite flavour, enjoyed games and participated in quizzes to arrive at the key "functional benefit. Crowdsourcing was successfully used to research a new product in about three months and with an investment of a few thousand dollars. Traditional research would have meant a time frame of at least 2 years and millions of dollars of investment.

Social media can be effectively used to conduct online surveys and polls. Revlon India gainfully used social media in the form of Revlon India Facebook page to understand the beauty habits of Indian girls. A survey was conducted and 75,000 consumers responded in the 2-week time period. How do you apply the foundation? How long does it take you to apply make-up? How many times do you touch up your makeup in a day?...were some of the questions asked, amongst others. Getting beneath the make–up, Revlon discovered that approximately 80% of the ladies use their fingers to apply foundation; 4 in every 10 spend less than 15 minutes applying their make-up and four-fifths of them touch up their make-up on a daily basis. These insights were used instantly to fine tune Revlon's advertising

campaign which was then made to focus on Revlon's ColorStay Whipped Crème as it emerged as the best solution based on the findings.

Conclusion

Social Media is being used by brands not only to share content or offer product reviews but also to launch products, invite customer feedback, and to update customer about the brand. This has resulted in customer engagement at all levels of the brand. If we consider prepurchase behaviour, research shows that the traditional media are only effective during the consideration stage, while the subsequent stages of consumer decision are characterized by various online media. Talking about post-purchase behaviour, unlike in the past, today in the digital era, consumer engagement continues after final purchase via social media. Organizations need to be very clear about the purpose for which they have joined social networking sites, at the same time try to converge consumers towards their products. According to Mead's theory, as we interact with others, the "self" is constantly changing and adapting to further shape our identities and thought process. This makes it clear that consumers do make choices based on reviews because there "self" changes with exposure to every new piece of information. Consumers also seek approval from others for any choice they make through social media.

Social media influences consumer behaviour considerably and hence it is vital to utilise this new media for studying consumer behaviour and generating insights. It provides a natural environment to study consumers since the interaction on social media is largely consumer driven and not pre-defined by the researchers. Apart from gathering feedback about your products and services from the conversations on social media, crowdsourcing is an efficient tool for new product development.

It is important to make the customer experience coherent and create a customer experience plan based on company products and target segments. Integrating traditional marketing with digital or social marketing is a challenge. Even data and insights gathered via traditional and social media need to be married and that is a tough task. Today's marketers are more trained to deliver messages but social media demands careful listening and responding in a timely manner. The dynamic nature of social media demands dedicated resources, perhaps there is a need for a social media manager post. While Social Media is here to stay and you can ignore it only at your own risk, the speed, accuracy and interactivity of the digital touch points will define the quality of consumer experience.

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