Workplace Spirituality, Organizational Learning Capabilities and Mass Customization: An Integrated Framework

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Abstract

In today's world organizations strive to achieve competitive advantage. To this end, mass customization (MC) as a source of competitive advantage has generated a lot of interest. Gap however exists in terms of exploring factors enabling the successful development of MC. The current study examines the role of organizational learning capabilities in the development of MC. In addition workplace spirituality has been known to influence organizational learning capability. Workplace spirituality also impacts overall employee as well as organizational outcomes and practices. The goal of the study is to explore the linkages between the dimensions of workplace spirituality, organizational learning capability and MC. Based on a comprehensive literature review, a theoretical framework and propositions are derived. The findings are expected to provide guidance for firms to effectively develop MC practices.

Keywords: Mass Customization, Organizational learning capability, Workplace spirituality

1. Introduction

Mass customization (MC) strategy, since its inception in late 1980s, has received much attention (Chu, Cheng & Wu, 2006; Fogliatto & Silveira, 2008; Helo, Xu, Kyllönen & Jiao, 2010; Jiao, Ma & Seng, 2006; Schentler, 2009; Wong & Eyers, 2011). The main aim of MC is to provide customers with required products or services at high volumes, based on customer specifications and reasonably low costs (Silverira, Borenstein & Fogliatto, 2001). Despite the increasing amount of attention paid to MC practices by practitioners and academicians to the entire process of MC, failures in effectively implementing MC strategies still exist (Broekhuizen & Alsem, 2002; Kakati, 2002; Pine, Victor, & Boynton, 1993; Selladurai, 2004).

One of the major reasons of the failure is the lack of understanding of the uniqueness in development of MC. Practitioners have found that development and implementation of MC practices is different from the traditional techniques such as TQM, and continuous improvement (Huang, Kristal & Schroeder, 2008; Selladurai, 2004). It is this difference that prompts researchers to look deeper in the strategy and help practitioners develop mass customization strategies (Gilmore & Pine, 1997; Lau, 1995; Svensson & Barford, 2002). To this end, researchers have been urged to investigate the antecedents and individual aspects of MC practices with a view of providing managers guidance on development and implementation of MC practices (Gilmore & Pine, 1997; Huang et al., 2008; Lau, 1995; Svensson & Barford, 2002).

The important role of organizational learning capability has been documented previously in the development of mass customization practices (Kotha, 1996). For instance, the development of learning perspective is recommended for mass customizers (Pine II, Peppers, Rogers, 1995). This would further help organization achieve sustainable competitive advantage (Pine II et al., 1995). Lack of developing learning relationships have been cited as a major drawback in mass customization strategy of Nissan which resulted in escalation of costs and loss of quality and flexibility (Hart, 1996). Furthermore, as pointed out by Anzanello and Fogliatto (2007), to produce new models with changing customer demands, the workers need to develop learning capabilities and learn from previous models to derive new innovative models. This is required to prevent quality losses in initial stages of production. However despite the recognition of the importance of organizational learning capabilities in mass customization context research by and large has failed to systematically investigate specifically how the

individual dimensions of organizational learning capability impacts mass customization. Furthermore given the important role organizational learning capability in development of MC it becomes critical to also examine how organizational learning capability can be developed. Workplace spirituality has been widely known in management literature to enhance organizational learning capability (Krishnakumar & Neck, 2002; Kolodinsky, Giacalone, & Jurkiewicz, 2008; Nur & Organ, 2008; Sue, 2002). Despite this recognition literature is somewhat scattered and a systematic investigation of the linkages between specific dimensions of workplace spirituality and organizational capability is lacking.

Taken together the investigation of these linkages will give managers a perspective on the development of MC practices. In addition, the results will be further interesting because despite the fact that there have been isolated instances where researchers have linked workplace spirituality to OM concepts such as TQM (Marques, Allevato, & Holt, 2008) OM researchers in general and more specifically MC researchers have thus far neglected the role of workplace spirituality in unified MC context. Based on the above we seek to investigate the following:

• What are the relationships between the dimensions of workplace spirituality, organizational learning capabilities and mass customization?

2. Contributions of the Study

The study offers three major contributions. First, the major contributing factor of the study is to provide an overarching framework to the managers by exploring the linkages between dimensions of workplace spirituality, organizational learning capabilities and MC practices. As mentioned previously, this framework is critical as the lack of understanding of MC at all levels and lack of understanding of issues of implementation of MC has been widely highlighted (Selladuria, 2004; Duray,Ward, Milligan & Berry, 2000). The approach is different from previous studies in that individual dimensions of mass customization are considered and their linkages amongst each other are explored.

Second, as pointed out by variety of strategic management researchers that despite the growth of organizational learning capability literature, there is still a need to understand what factors contribute toward enhancement of learning capability (Chen, 2005; Cyert & March 1963; Prahalad & Hammel, 1994). In addition, authors in the area of learning capability have pointed out that discrepancies still exist in selection of measures of organizational learning capability (Easterby-Smith, Crossan & Nicolini, 2000; Lyles & Easterby-Smith, 2003). Researchers have also debated over the critical dimensions of learning capabilities and lack of agreement still exists (Easterby-Smith et al., 2000; Gómez, Lorente, & Valle-Cabrera, 2005; Lyles & Easterby-Smith, 2003). The current study also adds to this stream by exploring the dimensions of organizational learning capability. In addition the study also investigates the linkages between the dimensions of organizational learning capability as recommended by Gómez et al. (2005). Furthermore despite the growing usage of learning capability dimensions and their impact on organizational practices such as MC or vice versa. This is relevant because exploring the linkages would help managers gain an insight on ways to enhance the organizational practices such as MC. The study also seeks to address this issue.

Third, as pointed out by Krahnke, Giacalone and Jurkiewicz. (2003, p. 398) "further and important to the organizational literature as a whole, the study of workplace spirituality must be placed within the context of multidisciplinary research, illustrating how it fits within the broader mainstream research." This is also highlighted by other workplace spirituality researchers (Adawiyah, Shariff, Saud, & Mokhtar, 2011; Dean, 2003; Dean, Fornaciari & McGee, 2003; Krisnakumar & Neck, 2002; Sheep, 2006; Tischler, Biberman & Altman, 2007). In support to call made by various researchers in workplace spirituality literature the current study seeks to integrate the concept of workplace spirituality within the MC context in the OM literature thereby addressing one of the important demands in workplace spirituality stream of literature.

3. Literature Review

3.1 Workplace Spirituality

The last decade has seen a rise in the literature on the topic spirituality in the workplace (Altaf & Awan, 2011; Dean, 2003; Kanter, 1982; King & Crowther, 2004; King & Nicol, 1999; Kinjerski & Skyrpnek, 2004; Milliman, Czaplewski & Ferguson, 2003; Neal & Biberman, 2003; Tischer et al., 2007). Workplace spirituality has been defined as "Workplace spirituality is a framework of organizational values evidenced in the culture that promotes employees' experience of transcendence through the work process, facilitating their sense of being connected to others in a way that provides feelings of completeness and joy (Giacalone & Jurkiewicz, 2003, p.

13). A literature review was carried out to identify the dimensions of workplace spirituality and is shown in Table 1.

Insert Table 1 here

Workplace spirituality is associated with attaining connection with oneself, others, and workplace environment. Workplace spirituality is further related to self-actualization. Tishcer (1999) considers Abraham Maslow's hierarchy of needs model and identifies the highest need as self-actualization connected to spirituality. Butts (1999) mentions that the idea of spirituality in the workplace is important and identifies dimensions of spirituality such as optimal human development, the art of transcendence and spiritual psychologies. Burack (1999), with the help of different case studies such as Tom's of Maine, Hewlitt Packard, and the Ford Motor Company, highlights the importance of workplace spirituality as one of the important themes in the development of the organization. As pointed out by Krishnakumar and Neck (2002), organizations who help employees or who are willing to provide "individual encouragement" and assist the employee in achieving spirituality, gain better performance. Another interpretation would be that "spiritual employees" lead to better organizational performance. Based on the Table 1 the major dimensions of workplace spirituality are: organizational norms and connectedness. A brief discussion of each is presented next.

3.1.1 Organizational norms

Organizational norms can be described as set of guidelines related to behavior which are agreed upon by managers and decision makers (Balthazard, Cooke & Potter, 2006). These guidelines are based on the firm specific organizational culture (Balthazard et al., 2006). Norms should be developed to promote supporting organizational values. In context of spirituality norms should be developed in such as manner that provides an employee with a spiritual growth at workplace. The norms should be based on enrichment and nourishment of individual wellbeing which will lead to enhanced motivation and overall performance (Sheep, 2006).

3.1.2 Connectedness

This dimension of workplace spirituality encompasses closeness with coworkers and overall organizational environment (Mitroff &Denton, 1999). If the people feel a part of the community this will be exemplified by high commitment sharing and trust (King & Crowther, 2004). This will further enhance communication channels. The feeling of connectedness further helps employee to work in a cordial and joyful environments (Dean, 2003). An organization where employees are connected with each other and overall organizational goals will have enhancement in overall performance.

3.2 Organizational Learning Capability

Organizational learning has been a centre of attraction for researchers for long time (Daft & Weick, 1984; Huber, 1991; Senge, 1990). As pointed out by Huber (1991) Organizational learning involves forward and backward movement of knowledge along different levels. For instance, movement of knowledge occurs from individual level to group level to organizational level and vice versa. Thus organizational learning capability can be defined as processes which enable flow of knowledge. More specifically organizational learning capabilities are those processes, characteristics or structures which enhance sharing, acquisition and adequate utilization of knowledge within or outside the organization (Cheva, Alegra & Lapiedra, 2007). As pointed out by Slater and Narvekar (1995) it becomes critical to consider organizational learning capability as multidimensional construct. The current study conducts a literature review to identify critical dimensions of organizational learning capability. Based on the literature review indicated in Table 2 it was found that openness and experimentation and knowledge transfer were the critical dimensions of organizational learning capability. A brief discussion of each is presented next.

Insert Table 2 here

3.2.1 Openness & Experimentation

The concept of openness & experimentation refers to the ability of the firm to promote and build a climate which is receptive to accepting new ideas and thoughts and allows individual knowledge to be constantly expanded upon without any restrictions (Akgun, Keskin, Byrne, & Aren, 2007). Some of the aspects such as lack of favoritism, promotion of cultural-functional diversity, equal treatment of employees & availability of appropriate information to employees promote a climate of openness & experimentation (McGill, Slocum & Lei, 1992).

3.2.2 Knowledge Transfer

Knowledge transfer deals with learning caused by sharing of experience between different organizational units (Darr, Argote & Epple, 1995). It has been evident that firms which are better equipped in handling knowledge

transfer activities are better able to survive in the competitive market (Tsai, 2002). Knowledge transfers are of two types: Knowledge transformation and knowledge transmission (Hamilton, 2005). Knowledge transformation and knowledge transmission are fundamentally different. The main difference is in the fact that knowledge transformation involves the conversion of knowledge according to the needs of the concerned organizational unit however knowledge transmission involves transfer of information based on experience of a firm to another firm. Knowledge transfer can be achieved by formation of communication network, forming cross functional teams, and arranging discussions (Hamilton, 2005)

3.3 Mass Customization Capabilities

There have been plenty of studies identifying different dimensions of mass customization. For instance the study by Selladurai (2004) considers standardization approaches including process, product, procurement and partial standardization, to be the key elements of mass customization. Blecker and Abdelkafi (2006) recognize the importance of purchasing, production and internal logistics, and product development as important elements of mass customization. A study by Su, Chang and Ferguson (2005), recognizes postponement as a key dimension of mass customization. Customer sensibility, process amenability, competitive environment and organizational readiness have been identified as critical elements of mass customization (Hart, 1995). Jiang, Lee and Seifert (2006) state that mass customization consists of two opposite extremes such as mass production and customization. Studies by Dobrescu and Reich (2003) clearly mention the importance of modularity from mass customization perspective. A conceptual typology is developed which helps in identifying firms practicing mass customizations from an operations perspective (Duray et al., 2000). The authors found that involvement of customer and responding to customer needs in addition to product/process modularity are key to success of mass customization (Duray, 2000). Modularity and customer responsiveness have been identified as important dimensions for mass customization by other studies (Arnheiter & Harren, 2005; Schmenner & Tatikonda, 2005; Tseng & Jiao, 2003; Voordijk, Meijboom & Haan, 2006). As mentioned above, the key dimensions agreed by most studies are postponement, modularity and customer responsiveness. For the purpose of the study, each of these dimensions was used and a detailed discussion of each is presented next.

3.3.1 Modularity

Modularity refers to flexibility in process or product in terms of different combinations of components or subassemblies. In a module, the structural elements are connected powerfully to member components of their units (Baldwin & Clark, 2000). In addition, the connection between components of different units is weak (Baldwin & Clark, 2000). The process modularity involves creating flexibility in the process of manufacture and production of a product in semi-completed form. The products might be different in terms of types of operations and forms (Selladurai, 2004). It has been mentioned that introduction of modularity has tremendous benefits for an organization. Some of the benefits include reduction in inventory costs and reduction of time to markets (Fisher, Ramdas, & Ulrich, 1999; Thyssen, Isaelsen & Jorgensen, 2006).

3.3.2 Postponement

Postponement deals with flexibility and allows for forward movement of operations to a much later point of the supply chain (Su et al., 2005). Different forms of postponement include time postponement (TP) and form postponement (FP). Time postponement or the make to order approach involves waiting for customer orders (Prasad, Tata & Madan, 2005; Su et al., 2005; Zhang & Efstathiou, 2006). This dimension of postponement gives priority to customer orders and delays the manufacturing and shipping until customer orders have been received (Su et al., 2005). Form postponement deals with delivery of product in a semi-finished form (Graman & Magazine, 2006; Su et al., 2005). The product is stocked in the final assembly where, depending on the customer orders, the product is customized (Su et al., 2005).

3.3.3 Customer Responsiveness

The customer is an important link in implementing MC strategy. The goal of any MC strategy is to provide customers with desired quantities at a desirable cost. Customer responsiveness involves communicating and maintaining a relationship with the customer that will help an organization understand the needs of the customer and respond in a timely manner (Selladurai, 2004).

4. Theoretical Framework

4.1 Organizational norms, Openness and Experimentation and Knowledge Transfer

Organizational norms specify the actions to be carried out in a specific situation (Christenson, Hougland, Ilvento & Shepard, 1988). Organizational norms have been found to control and have an impact on the behavior and emotions of the employee in a positive as well as a negative manner. For instance, if the norms of the

organization are such that they encourage opposition culture, then employees might express more negative emotions (Cooke & Scuzmal, 1987). Formation of norms would enhance a firms ability to regulate and control emotions and lead to enhancement of an atmosphere of openness and experimentation. It has been mentioned that creating resources through norms has been a positive way to regulate openness and experimentation in groups (Brown & Dugaid, 2000; Scott & Brown, 1999). In addition it has been well known that if a firm develops norms to form a climate of openness and experimentation this has many benefits. For instance, communication is enhanced, a close relationship is developed between members and the transfer of knowledge is increased (Brown & Dugaid, 2000; Riege, 2007; Scott & Brown, 1999; Sharifuddin & Fytton, 2007; Yih-Tong Sun, & Scott, 2005). When a firm maintains clear cultural norms and communication norms knowledge transfer and sharing is enhanced. For instance, as mentioned by (Heidi & Miner, 1992) cooperative norms are beneficial in knowledge sharing, and proper use of power. Thus we propose:

Proposition 1: Organizational norms have a positive influence on knowledge transfer by developing a climate of openness and experimentation

4.2 Organizational Norms, Connectedness and Knowledge Transfer

If firm's organizational norms are designed in such a manner that connectedness is promoted and individuals are allowed to express themselves freely there will be display and sharing of positive emotions. As mentioned by Durand and Huy (2007) allowing individuals to freely express their emotions has a positive influence on knowledge transfer, enhanced energy level at work and allows for better interactive channel formation. It can be said that if employees feel a sense of connectedness with each other and the organization they would actively involve in knowledge sharing, transfer and knowledge accumulation activities. Firm's knowledge creation capabilities involve activities such as assimilation, synthesizing and sharing various creative ideas, exploitation of the ideas. If a sense of connectedness develops between employees this will allows them to display their emotions freely and have a greater interest in sharing the knowledge created using assimilation processes. Based on the above we propose:

Proposition 2: Organizational norms have a positive influence on knowledge transfer by developing a sense of connectedness between employees and organization

4.3 Openness and Experimentation, Knowledge transfer and Modularity

An atmosphere of openness & experimentation creates synergistic environment. A climate of openness and experimentation would also help in effective formation of communication network between different member components of the organizations. This would help in effective coordination of appropriate information which would further lead to effective knowledge transfer amongst employees. The culture of openness and innovation provides a platform for a firm to share and develop new ideas (Akgun et al., 2007). In addition, the open atmosphere within the firm provides the opportunity to expand, rectify and widen the knowledge. The openness and experimentation in an organization encourages departments to seek solutions from within and outside to facilitate existing processes (Akgun et al., 2007). If the environment within the firm promotes experimentation, departments will be motivated to engage in knowledge transfer and try out new combinations which would in turn enhance modularization of product and process. In addition if the organization is active in experimentation and willing to seek changes in ideas and change the existing set up, knowledge transfer would help the firm achieve its objective. A synergy is formed as a result of atmosphere of openness and the employee develops the sense of initiative. Because of an open environment, workers will share experiences with other workers thereby facilitating internal transfer of tacit knowledge. This would further help the workers conceptualize problem, take experiences into consideration and generate solutions to problems (Bou-Llusar& Segarra-Ciprés, 2006). Knowledge transfer between members of an organization will help enhance the creation of ideas and provide an insight into different combinations or subassemblies. Because of an open environment there will be sharing of both tacit and explicit knowledge between employees. This will help in development of flexible design and enhance modularity in product and process design. Based on the above we propose:

Proposition 3: Openness and experimentation has a positive impact on modularity via Knowledge transfer

4.4 Modularity, Postponement and Customer responsiveness

In simple terms, postponement deals with delaying tasks such as storing products in semi-complete forms until the last minute (Li, B.Nathan, T.Nathan, Rao, 2006). Depending on the needs of the customers, products are then delivered, thereby reducing holding costs such as inventory costs or handling and logistics cost. Modularization of the products, as mentioned, before involves dividing products into small modules (Yang, Burns & Backhouse, 2004). This aids in postponement, as based on the customer demands, and modules can be converted into

products and delivered to the customer. Modularity, in other words, has been identified as an essential enabler along with other processes such as manufacturing, and logistics (Yang et al., 2004). Researchers have urged organizations implementing postponement to study the modularization processes and obtain benefits by implementation of modular processes or products (Feitzinger & Lee, 1997).

Postponement has been commonly portrayed in the literature as a source of reduction of inventory and improved customer responsiveness (Lee & Tang, 1997; Swaminathan & Tayur, 1998). Customer demands have become variable. Organizations, in order to sustain market position and retain the customers, turn to strategies such as postponement. The strategy of postponement is implemented by an organization to meet customer needs and reduce lead time (Aviv & Federgruen, 2001). Depending on the customer needs, the strategy of postponement can either facilitate delays in process or form of the product (Li et al., 2006). This leads to enhanced flexibility and improved customer responsiveness (Van Hoek, Voss & Commandeur, 1999). Accordingly we posit:

Proposition 4: Modularity has a positive impact on postponement

Proposition 5: Postponement has a positive impact on customer responsiveness

4.5 Modularity& Customer responsiveness

The modular product design enables firms to develop independent modules and flexibility in assembly of modules to form new products (Sanchez, 1995). In addition, customer loyalty and responsiveness might also be seriously affected if there is longer delivery time or lead time (Handfield & Pannesi, 1995). In case of defective delivery, modularization offers a benefit in terms of customer responsiveness. The customer responsiveness is enhanced using modularity in product design as organizations can quickly work on the defective modules and provide customers with improved products (Karmarkar & Kubat, 1987). All of the above lead us to the following:

Proposition 6: Modularity is positively related to enhanced customer responsiveness

Figure 1 depicts all the proposed relationships mentioned above.

Insert Figure 1 here

5. Discussion and Managerial Implications

In the current decade where the economy is marked with organization's dealing with changes in customer demands, it becomes imperative to have knowledge of effective development of MC. The motivation to carry out this study was the fact that even though organizations implement MC, there has been evidence of failure of MC strategies. This study is specifically designed to provide managers with an overarching framework for effective development of MC. The purpose is achieved by proposing an extended framework identifying potential linkages. The uniqueness of the study, as mentioned before, is in the fact that no study has so far investigated the relationships between dimensions of workplace spirituality, organizational learning, and MC.

On a macro level the exploration of positive linkage between dimensions of workplace spirituality and organizational learning capability addresses two major issues. First, there is some evidence of connection between workplace spirituality and improved organizational learning capability (Kolodinsky, Giacalone, & Jurkiewicz, 2008; Krishnakumar & Neck, 2002; Nur & Organ, 2008; Sue, 2002). However to the best of our knowledge no study has explored the linkages between individual dimensions of workplace spirituality and organizational learning capability. The current study offers a valuable insight on these linkages. In the process the study also identifies critical dimensions of learning capabilities which is important and must be done to further the research in organizational learning capability (Prieto & Ravilla, 2006). Second, the study looks at these linkages in MC context. This becomes important because MC literature has predominantly focused on technical issues (Duray, 2006) and as pointed out by (Hart, 1995; Huang et al., 2008; Kakati, 2002; Kotha, 1995) investigation of soft issues in development of MC processes is extremely important and deserves attention.

On a micro level, the positive linkages between organizational norms, connectedness, openness and experimentation and knowledge transfer offer interesting insights. The importance of norms in psychology literature is evident (Aquino, Douglas & Martinko, 2004; Ehrhart & Naumann, 2004). However, it has been recognized that there has been a general lack of integration of organizational norms in theoretical frameworks in management literature (Nilsson, Borgstede & Biel, 2004). The current study can be seen as a step in this direction. The positive association of organizational norms with knowledge transfer would further encourage managers to actively set up norms specifically to regulate knowledge sharing and transfer across the entire organization. It is also recommended that managers would be advised to involve all categories of employees in formulation of MC strategies and development of knowledge based systems. Developing norms which promote

employees connectedness at all levels within organization would help employees understand each others feelings, allow people to develop feeling of closeness and remove the fear of reprisal and facilitate knowledge transfer which would have a positive impact on MC.

Knowledge management has been identified as a key source of organizational success (Prasad, 2001). Knowledge has been seen as a driver of company life and knowledge of people is seen as a wealth of the organization. One of the important pillars on which knowledge management rests is learning (Mohamed, Stankosky & Murray, 2004). Learning will occur if individuals are open to suggestions and shared visions. Positive linkage between organizational norms and knowledge transfer would encourage managers to focus on the development of organizational norms. For instance, norms such as establishing strong communication networks will further enhance the effective sharing of information and knowledge. Socialization is important to communicate norms in an organization (Mevor & Allen, 1990). Thus managers are recommended to focus both on communication network and socialization aspect of members to effectively communicate the norms within organization. Managers would be advised to invest in socialization outlets such as informal gatherings, meetings, and get-togethers to promote socialization. The positive association between organizational norms and knowledge transfer will further motivate managers to inculcate the network formation which would facilitate in achieving optimum results in terms of improved organizational learning by effective scanning of the environment and sharing of required information. Implications for managers thus include formation and organize communication network channels, investing in team bonding and relationships to communicate norms and enhance knowledge transfer.

One recommendation to managers would be to develop an atmosphere with openness and experimentation which will enhance knowledge transfer and would facilitate managers in enhancing product and process modularity. Managers would be recommended to engage in knowledge sharing activities as they would facilitate in strategy making and decision formation from a modularity perspective.

The current study provides an analysis of critical dimensions of MC. In the process it also explores the linkages between dimensions of MC and addresses relevant gaps in the literature. Modularity was identified as a critical dimension of MC. As pointed out by (C.Pan, G. Pan, Chen, & Hsieh, 2007) there is a paucity of research on investigating factors which a firm can focus on while implementing modularity of product or processes during capability development. This study provides an insight on factors such as knowledge transfer critical for the development of modularity during capability development processes and recommends managers to develop and focus on knowledge transfer mechanisms. Modularity and postponement were also proposed to have a positive impact on impact on customer responsiveness. Manufacturers today face immense pressure from customers to meet specific requirements. From a supply chain context, by engaging in practices such as modularity and postponement managers would develop highly flexible and responsive supply chains which would further enhance customer responsiveness. A recommendation to managers would be develop integration channels with customers this would also enhance customer responsiveness.

6. Conclusion, Limitations and Future Research

The goal of achieving sustainable competitive advantage by building competencies and resources has been central to a firm's strategy. The role and popularity of MC in this context remains unquestioned. However there exists a need to answer some unanswered questions. As pointed out by Da Silveria, Borenstein and Fogliatto (2001) much of research in MC has focused in explaining the importance of MC and its consequences. There is little evidence in terms of exploration of development of MC (Da Silveria et al., 2001). Furthermore prior research in the area of MC has recognized the importance of organizational learning capability in MC perspective. However, detailed exploration of linkages is lacking in literature. In addition despite the recognized importance of Workplace spirituality in management literature a systematic investigation of impact of workplace spirituality on OM practices and particularly MC context is lacking. Hence a study of this nature is warranted.

The major limitation of the study is that it is theoretical in nature. The goal of the researchers is to conduct an empirical research to add validity to the findings. Future research should identify additional dimensions of workplace spirituality include them in the current framework. The impact of other important dimensions of organizational learning capability such as managerial commitment and culture can also be investigated. As pointed out Goleman (1998) organizations can no longer neglect the human abilities and emotions of the employees within the organizations. From an MC perspective the use of emotional capability of the organization and its impact on MC capabilities can be investigated. Future research in MC can explore the linkages between knowledge creation practices, mass customization dimensions and the impact on other competitive capabilities

such as time to market. In addition, the impact of variables such as firm size, firm structure and the firm positioning in supply chain should be investigated on the above mentioned linkages.

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| Study | Dimensions of Workplace Spirituality | |
|--|--|--|
| Pawar (2009) | Organizational norms, Innerself, connectedness and personal fulfillment | |
| Badrinarayanan & Madhavaram (2008) | Innerself, Meaningful work and connectedness | |
| Gotsis & Kortezsi (2008) | Organizational norms, Connectedness sense of transcendence and personal completeness & enjoyment at work | |
| Dean & Safranski (2008) | Organizational norms, connectedness, alignment with organization value | |
| Ashmos & Dunchon (2000) | Sense of inner life, meaningful work and community. | |
| Mitroff & Denton (1999) | Spirituality is a sense of connection with oneself, others and workplace. | |
| Kolodinsky, Giacalone, & Jurkiewicz (2008) | Organizational norms, connectedness, personal fulfillment, selfbelief | |
| Harrington, Preziosi & Gooden (2001) | Organizational norms, connectedness, alignment with organizational value | |
| Fairholm (1996) | Spirituality relates to inner self, and others and guides individuals on the path of humanity. | |
| Konz & Ryan (1999) | Organizational norms, values, finding meaning at workplace. | |
| Sheep (2006) | Organizational norms, personal fulfillment, selfbelief, connectedness | |

Table 1. Studies indicating the Dimensions of Workplace Spirituality

| Studies | Dimensions of Organizational Learning Capabilities | |
|--|--|--|
| Lichtenthaler (2009) | Knowledge transfer & creation | |
| Nafukho,Graham & Muyia (2009) | Culture, Leadership, openness in systems & structure, communication, reward & recognition and teams | |
| Zipkin (2001) | Elicitation, process and logistics | |
| Gómez, Lorente & Valle-Cabrera (2005) | Managerial commitment, systems perspective, openness & experimentation, knowledge transfer and integration | |
| Chiva, Alegre, & Lapiedra (2005) | Experimentation, participative decision making, Dialogue, Interaction with external environment | |
| Gómez, Lorente, Cabrera & Valle (2004) | knowledge transfer and integration, learning commitment; systems thinking; | |
| | openness and experimentation; | |
| DiBella, Nevis, & Gould (1996) | knowledge acquisition, knowledge transfer & sharing, and knowledge utilization | |
| Nevis,DiBella & Gould (1995) | Leadership & managerial commitment, knowledge scanning, continuous education, climate of openness & Operational variety | |
| Ulrich, Von Glinow & Jick (1993) | Managerial commitment & knowledge transfer | |
| Goh & Richards (1997) | Knowledge transfer, teamwork & leadership commitment | |
| Bhatnagar (2006) | Strategy, organizational norms such as culture, leadership, organization structures | |
| Crossan, Lane, & White (1999) | Intuiting (Experiences, Images, Interpreting | |
| | (Language, cognitive maps), Integrating(Interactive systems, shared understanding) and Institutionalizing (norms, rules & Procedures) | |

Table 2. Studies indicating the Dimensions of Organizational Learning Capability

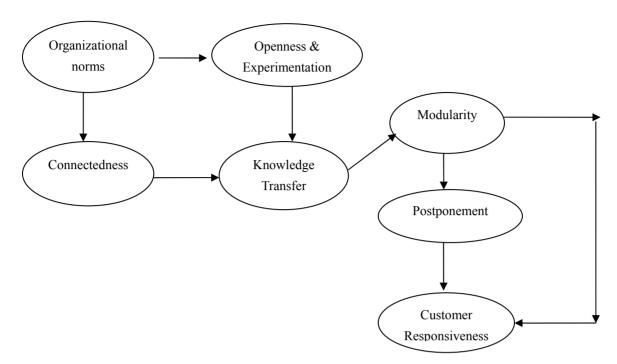


Figure 1. Integrated framework identifying the relationships between dimensions of Workplace Spirituality, Organizational learning capabilities and Mass Customization