Leadership and Organizational Learning: The Determinants of Innovation Speed and Innovation Quality in Vietnamese Firms

Ha Thi Lan Anh¹, Le Ba Phong^{1 & 2} & Lei Hui¹

¹School of Business Administration, Hunan University, Changsha, Hunan, China

² Faculty of Business Management, Hanoi University of Industry, BacTuLiem, Hanoi, Vietnam

Correspondence: Lei Hui, School of Business Administration, Hunan University, Changsha, Hunan, China.

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Abstract

The purpose of this study is to explore the influences of transformational leadership on organizational learning and how it relates to innovation speed and innovation quality. The paper uses structural equations modeling (SEM) to investigate the correlation between the constructs based on analyzing the empirical data collected from 250 small and medium firms in Vietnam. The results support positive and significant effects of transformational leadership on organizational learning and two aspects of innovation namely innovation speed and innovation quality. It also confirms that organizational learning acts as a mediator between transformational leadership and two types of innovation. The findings, therefore, provide clearer understanding of the relationship between transformation leadership, organizational learning and aspects of innovation. It provides managers the useful knowledge and specific pathway to enhance firm's innovation capability to effectively response to the rapid changes of business environment.

Keywords: transformational leadership, organizational learning, innovation speed, innovation quality, SEM

1. Introduction

Before the complex and rapid changes of business environment, innovation is fast becoming a crucial factor to improve firm performance and help firm survival (Campos & Pablos, 2004; Le & Lei, 2018). Firms realized that innovation capability is the key and decisive solution for them to create value, to build, and to sustain competitive advantage in long term as it can be a source of competitive advantage (Hinterhuber & Liozu, 2014). Innovation helps firms adapt well with the uncertainty of the external environment and become one of the most important factors leading to the success of the business in the dynamic markets (Baker & Sinkula, 2002; Hui et al., 2018; Yang et al., 2018).

Innovation capability is widely accepted as the key antecedent for firm to create and sustain competitive advantage, but many firms do not how to develop it properly (Hui et al., 2018; Le & Lei, 2018; Lei et al., 2019). To provide more understanding or effective pathway leads to innovation, this study focus on investigating the influences of transformational leadership on two aspects of innovation capability namely innovation speed and innovation quality through the mediating role of organizational learning. This study is urgent and necessary by following issues.

First, many prior works have been done to explore the influences of transformational leadership (Garc upha-Morales et al., 2012; Hui et al., 2018), organizational learning (Liao et al., 2008; Le & Lei, 2018), and other factors such as organizational culture (Yang et al., 2018), knowledge sharing (Lei et al., 2019) on firm innovation capability, but scholars mostly exam innovation capability in general point of view or at two aspects of product innovation and process innovation. Few study investigated the relationship between transformational leadership, organizational learning and two specific aspects of innovation capability namely innovation speed and innovation quality. Meanwhile innovation speed and innovation quality are seen as two critical aspects of innovation in complex and competition business environments (Le & Lei, 2018).

Second, organizational learning is recognized as a strategic resource for maintaining long-term organizational success (Garc *á*-Morales et al., 2012; Lei et al., 2017; Le & Lei, 2018), as a result many scholars emphasized the necessity of exploring the consequences of learning capability (e.g., Prieto & Revilla, 2006; Le & Lei, 2018).

Therefore, this study will increase the understanding of organizational learning theory by investigating clearer the different influences of organizational learning on innovation speed and innovation quality.

Finally, prior studies considered transformation leadership as one of the most important leadership styles that significantly influences on both innovation capability (McDonough, 2000; Harborne & Johne, 2003; Hui et al., 2018), and organizational learning (Zagoršek et al., 2009; García-Morales et al., 2012). However few research investigated the mediating role of organizational learning between transformational leadership and specific aspects of innovation such as innovation speed, and innovation quality.

It is clearly that, although prior researches have made a considerable contribution to the understanding of the correlation between transformational leadership, organizational learning and innovation, empirical research on the relationship between transformational leadership, organizational learning and two key aspects of innovation capability is still sparse. To fill the theoretical gaps addressed above, and to contribute better knowledge about the relationship between these constructs, we use the structural equation modeling to test the level of influence that independent factor has on the dependent factors based on a survey of 250 participants from 102 small and medium enterprises in Vietnam. This study focus on addressing three research questions as following:

1. Does transformational leadership positive affect organizational learning and aspects of innovation?

2. Does organizational learning mediates the relationship between transformational leadership and two aspects of innovation?

By answer the above research question, this study is expected to offer specific and useful guidance for leaders to successfully improve innovation capabilities of their firms.

2. Conceptual Background and Hypotheses

2.1 Transformational Leadership and Organizational Learning

Organizational learning is a conception build by the integration of many behavior sciences such as psychology, organizational development, management science (Jiang & Chen, 2017). According to Ford et al. (2011) organizational learning refers to an organization that flexibly distributes and effectively applies resources by enhance the overall learning capability aimed at developing the leverage effect of existing practice capability and creating new practice capability to cope with internal and external challenges at any time. Definition of organizational learning can be interpreted as many ways. Senge (1990) considered organizational learning a dynamically balanced relationship in which organizations acquire external knowledge and further adjust organization activities to help organization survive and grow. Slater and Narver (1995) proposed that organizational learning is a process that includes four main components of information acquisition, knowledge dissemination, shared interpretation and organizational memory. Organizational learning helps firms to develop mechanisms and processes encouraging both individual and group workplace learning (Armstrong & Foley, 2003). In general, we define organizational learning as a flexibly process that unendingly create, share, disseminate and integrate new knowledge and information to effectively distribute, use its resources, and create valuable capabilities to cope well with business environment's internal and external challenges.

Transformational leadership is well known as one of the higher-ranking leadership styles. It describes the leaders who have capabilities of inspiring the employees to get the highest degrees of achievement and outcomes; stimulating employees to achieve goals further away than expectations; and persuading employees to pass self-interest for the organization's common utilities (Bass, 1985; Le & Lei, 2017). Literature supports the positive correlation between transformational leadership and organizational learning (e.g., McDonough, 2000; Arag ón-Correa et al., 2007; Chang & Lee, 2007; Sattayaraksa & Boon-itt, 2017). According to Coad and Berry (1998), transformational leadership fostered organizational learning through promoting intellectual stimulation, inspirational notivation, and self-confidence among organization members. McDonough (2000) indicated that transformational learning. This helps firms to learn through experimentation, exploration, communication and dialogue (Slater & Narver, 1995; Lei et al., 2000).

More specifically, Aragón-Correa et al. (2007) argued that transformational leaders fuel organizational learning by promoting intellectual stimulation, inspirational motivation, and self-confidence among employees in an organization. These authors conclude that a capability of transformational leadership can be seen as one of the most important means of developing learning organizations. Recently, Sattayaraksa and Boon-itt (2017) point out that, transformational leadership is positively associated with organizational learning because transformational leaders

create an appropriate and conducive atmosphere to facilitate for process of successful generation and sharing and applying of knowledge. Based on above arguments, the following hypothesis is offered for testing (see Figure 1).

H1: Transformational leadership is positively related to organizational learning.



Figure 1. The conceptual model of the research

2.2 Transformational Leadership and Innovation Capability

Firms that successfully managed innovation can go beyond research and development to ensure that innovation is an integral part of their organizations and their extended value chains (Podrug et al., 2017). Scholars considered innovation as the capabilities of development and implementation of new ideas or behavior relating to a system, policy, program, device, process, product or service by people who engage in transactions over time with others within an organization (Hage, 1999; Podrug et al., 2017). Innovation can be classified into various categories. However, innovation speed and innovation quality are seen as two critical aspects of innovation (Le & Lei, 2018) as a result this study focuses on investigating the relationship between these two aspects with transformational leadership. Innovation speed is a key element to compete in the market, for it can result in superior performance (Carbonell & Rodriguez, 2006). Innovation speed refers to a firm's ability in shortening the creation of new products or processes relative to the competitors (Allocca & Kessler, 2006; Le & Lei, 2018); and innovation quality refers to a firm's ability in improving new management, processes and supply new products and services with better quality than key competitors (Wang et al., 2016; Le & Lei, 2018).

Prior works have highlighted the positive influence of transformational leadership on innovation capability (e.g., Jung et al., 2003; Moriano et al., 2014; Le & Lei, 2019). For example: Jung et al. (2003) supposed that transformational leadership is significantly and positively associated with firm innovation due to it is mediated by an organizational culture which encouraged employees freely in discussing and trying out innovative ideas and approaches. According to Gumusluoglu and Ilsev (2009), transformational leaders, who intellectually stimulate workers, articulate a strong vision, and emphasize innovation, help cultivating an organizational climate where followers feel challenged to find innovative solutions. Moriano et al. (2014) manifested that transformational leadership positively related to innovativeness and risk taking which are key antecedents of innovation capability. Recently, Sattayaraksa and Boon-itt (2017) stated that transformational leadership can be instrumental in shaping and instilling an innovation culture that encourages creativity, risk taking, and nurtures innovation.

Although transformational leadership is widely accepted as one of the most important factors positively related to innovation capability, however the correlation between transformational leadership and specific aspects of innovation capability namely innovation speed and innovation quality is still very scarce. These arguments lead to the next hypothesis:

H2a: Transformational leadership positively affects innovation quality.

H2b: Transformational leadership positively affects innovation speed.

2.3 Organizational Learning and Innovation Capability

Regarding the relationship between organizational learning an innovation capability, many researches in the growing literature on the topic of organizational learning have indicated a positive correlation between organizational learning and innovation capability (Hurley & Hult, 1998; Calantone et al., 2002; Arag ón-Correa et al., 2007; Wang & Wang,

2012; Song, 2015; Podrug et al., 2017). These works reported that organizational learning supports creativity, inspires new knowledge and ideas, and increases ability to understand and apply them. Specifically, Hurley and Hult (1998) highlighted that organizational learning plays a pivotal role in building and improving innovation capability. According to Calantone et al. (2002), organizational learning has a stronger capacity to understand rivals' strengths and weaknesses and thus to learn from their successes and their failures and to generate greater innovative capability than competitors. Aragón-Correa et al. (2007) denoted that generative learning, the most advanced form of organizational learning, is a necessary underpinning for radical innovations in products and processes. Wang and Wang (2012) proved that the process of sharing knowledge and information in an organization has a positive influence on both innovation speed and innovation quality. Song (2015) investigated the effect of organizational learning on innovation and indicated that organizational learning is a crucial factor that positively affects innovation in Chinese firms.

As discussion above, the positive relationships between organizational learning and innovation capability is quite clear, few researches examine the specific influences of organizational learning on innovation speed and innovation quality. To fill in the gaps, this study proposes following hypotheses:

H3a: Organizational learning is positively associated with innovation quality.

H3b: Organizational learning is positively associated with innovation speed.

3. Research Methodology

3.1 Sample and Measures

This study examined a sample of 250 small and medium firms in some developed provinces of Vietnam. To meet research needs, the respondents in this study are leaders and managers to ensure that they have clear knowledge on their firms. This study issues 525 questionnaires and receives 295. At last, 286 are valid, with a 47.67% valid rate.

To make certain of the research's the validity and reliability, items used to measure variables were developed from previous studies. All constructs were measured using multiple items and all items were evaluated using a five-point Likert-type scale, ranging from '1 = strongly disagree' to '5 = strongly agree'. To measure transformational leadership we use four items designed by Podsakoff et al. (1996). A sample item is "the firm's leaders are always on the lookout for new opportunities for the unit/department/organization". Organizational learning is measured by four items developed by Arag ón et al (2007). A sample item is "The organization has acquired and shared much new and relevant knowledge that provided competitive advantage". To measure innovation speed and innovation quality, we use 10 items derived from the work of Le & Lei (2018). Some samples items are "our firm is quick in new product launching as compared to key competitors" (innovation speed); and "our firm does better in new product development as compared to key competitors" (innovation quality).

3.2 Data Analysis Methods

To eliminate the effects of common method bias, this study applied Harman's single-factor test to test for common method bias. The consequence indicates the overall variance is less than the 50% threshold for substantive common method variance. This specifies that common method bias was not a concern. In addition, to obtain the study's goal, we use analysis of moment structures (AMOS) to measure validation and for testing the structural model through the data gathered from the 250 small and medium firms in Vietnam.

4. Result

4.1 Measurement Testing

To examine the internal consistency of the variables, the coefficient of Cronbach's alpha (C α) and item to total correlation are adopted. With result's statistic ranges from 0.78 to 0.91, which are exceed 0.7, it means high reliability (Nunnally & Bernstein, 1994). We test exploratory factor analysis (EFA) to eliminate factors (factor loading lower than 0.5) to ensure the practicality of the research (Hair at al., 1998). We then performed confirmatory factor analysis (CFA) to evaluate the overall measurement model. Finally, we test convergent validity and discriminant validity of the constructs according to criteria of Fornell and Larcker (1981). Results in Table 1 support the convergent validity and discriminant validity of the constructs. Table 1 shows basic descriptive statistics, AVE, CR, C α of all constructs.

Construct	AVE	CR	~	Mean	SD	TL	OL	IO	IS
Collstruct	AVE	СК	Сα	Mean	3D	IL	OL	IQ	15
Transformational leadership (TL)	0.60	0.85	0.85	3,45	0.55	0.77			
Organizational learning (OL)	0.57	0.84	0.84	3.37	0.47	0.57	0.75		
Innovation quality (IQ)	0.71	0.93	0.91	3.60	0.66	0.56	0.70	0.84	
Innovation speed (b)	0.70	0.92	0.92	3.51	0.60	0.50	0.57	0.66	0.83

Table 1. Descriptive statistics and average variances extracted from constructs

Notes: $C\alpha \ge 0.7$; $CR \ge 0.7$; $AVE \ge 0.5$; SD: standard deviation. Diagonal elements (in bold) are the square root of the AVE; Off-diagonal elements are the correlations among constructs;

To measure the model's degree fit, we evaluated following indicators: absolute fit measures including Chi-square/df (CMIN/df), goodness of fit index (GFI) and root mean square error of approximation (RMSEA); incremental fit measures including normed fit index (NFI), adjusted goodness of fit index (AGFI) and comparative fit index (CFI); Table 2 confirms the adequate reliability and validity of the measurement model because all fit indices meet satisfactory levels.

Table 2. Indices of the CFA model

Fit index	Scores	Recommended threshold value
Absolute fit measures		
CMIN/df	1.474	$\leq 2^{a}; \leq 5^{b}$
GFI	0.923	$\geq 0.90^{\rm a}; \geq 0.80^{\rm b}$
RMSEA	0.044	$\leq 0.80^{\rm a}; \leq 0.10^{\rm b}$
Incremental fit measures		
NFI	0.941	$\geq 0.90^{a};$
AGFI	0.901	$\geq 0.90^{\rm a}; \geq 0.80^{\rm b}$
CFI	0.980	$\geq 0.90^{\rm a};$

Notes: Acceptability: acceptable; b Acceptability: marginal

4.2 Structural Model

This section presents the main results of our research (Table 3, Table 4 and Fig.2.)



Figure 2. Results of the structural equation model

Table 3. Structural model results

Hypotheses	Proposal effect	Estimate	Р	Results
H1 : TL \rightarrow OL	+	0.576***	< 0.001	Supported
H2a: TL \rightarrow IQ	+	0.232***	< 0.001	Supported
H2b: TL \rightarrow IS	+	0.241***	< 0.001	Supported
H3a: OL → IQ	+	0.598***	< 0.001	Supported
H3b: OL \rightarrow IS	+	0.480***	< 0.001	Supported

Notes: *** Significant at the 0,001 level

The results (Table 3 and Figure 2) indicated that the effect of transformational leadership on organizational learning is statistically significant and quite large, it supports hypothesis H1 relating to the positive effect of TL on OL with the values of 0.576 (p < 0.001)

Hypothesis of H2a and H2b relating to the positive effect of transformational leadership on innovation quality and innovation speed are also supported. With estimate value is 0.241 (p < 0.001), the result demonstrated that transformational leadership's effect on innovation speed is greater than its effect on innovation quality with the value of 0.232 (p < 0.001).

The results also confirm hypothesis of H3a and H3b relating to the positive effect of organizational learning on innovation quality and innovation speed. The findings show that organizational learning has greater impacts on innovation quality (the value of 0.598; p < 0.001) in comparison with its impacts on innovation speed (the value of 0.480; p < 0.001)

To explore the mediating mechanism of how organizational leadership affects two aspects of innovation, Bootstrap procedure is performed to evaluate the confidence of indirect effect. The Table 4 shows the direct, indirect, and total effects in structural model.

Predictor/dependent	OL	IQ	IS
Direct effects			
Transformational leadership	0.576***	0.232***	0.241***
Organizational learning		0.598***	0.480***
Indirect effects			
Transformational leadership		0.344***	0.276***
Total effects			
Transformational leadership		0.576***	0.517***

Table 4. Direct, indirect and total effects analysis

Notes: *** Significant at the 0,001 level

As to the indirect effects, table 4 firstly confirms the mediating role of organizational learning in the relationship between transformational leadership and two aspects of innovation capability. In addition, the findings show that, the indirect effects of transformational leadership on innovation quality is higher than its indirect effects on innovation speed (0.344 > 0.276). Referring total effects, Table 4 indicated that total effects of transformational leadership on innovation speed (0.576 > 0.517).

5. Discussions and Conclusions

Although firm innovation capability is widely prescribed as a driving force to improving organizational performance (Hurley & Hult, 1998; Garcia-Morales et al., 2008), many firms do not know how to develop it properly (Garcia-Morales et al., 2008; Le & Lei, 2018). This leads to attention or motivation among researchers to look for what enables firms to innovate (Zollo & Winter, 2002; Le & Lei, 2018). Accordingly, this study significantly contributes to the improvement of innovation management theory by showing that innovation speed and innovation

quality may be implemented based on multiple and simultaneous influences of individual and collective features. Specifically, the results support all proposal hypotheses and indicate that both transformational leadership style and the collective capability of organizational learning have positive influences on two specific aspects of innovation namely innovation speed and innovation quality. From these findings, the major implication of the paper is that, innovation is not available, and do not come to all organizations by natural, it occurs only in cases of firms having the appropriate internal characteristics, such as practice transformational leadership style by leaders or developing a model of organizational learning. In contrast, directors/managers may not successfully implement innovation (even when they have enormous resources) if they have no appropriate processes as well as understanding of complex condition that lead to achieve innovation. Transformational leadership and organizational learning are relevant examples of the internal conditions that firms need to build aimed at facilitating and improving innovation capability for their firms.

This study contributes to the literature in following ways. First, transformational leadership in firms is suggested by many authors to contribute to firm performance. Some studies empirically discussed the effects of transformational leadership on various aspects of innovation. However, few researches link transformational leadership, organizational learning, innovation speed and innovation quality from a holistic perspective. As a result, this study contributes to filling the theoretical gap by proposing the model and then providing an empirical evidence for the positive effect of transformational leadership on organizational learning which in turn positively affects two kinds of innovation capability namely innovation speed and innovation quality. Second, the findings showed that transformational leadership has not only direct influence but also indirect influence on two aspects of innovation based on mediating role of organizational learning, thereby affirming the mediating role of organizational learning in relationship between transformational leadership and aspects of innovation capability. Third, the findings also highlight that transformational leadership and organizational learning has more significant impact on innovation quality in comparison with their effects on innovation speed. From this finding, the paper has contributed to increasing the understanding on specific solutions to successfully implement specific aspects of innovation capability, and firm's specific strategies. This finding can be served as the reference to develop competitive advantage based on differentiation. It is because of executing differentiation strategy firms need providing special goods and services with high quality and value. This requires firms focusing on developing its capability of innovation quality (Maruso & Weinzimmer, 2015; McGee & Shook, 2015).

This study has some limitations. First, this study just researched the definition, dimensions and consequences of organizational learning in general. Further researches should explore more deeply by accessing organizational learning based on four processes: information acquisition, knowledge dissemination, shared interpretation and organizational memory. Second, this study has not considered the effects of mediating or moderating variables (such as firm size, firm age, etc.) on the relationship between latent variables in the proposal research model. Future researches may explore deeper the relationship between the structures by adding some suggested mediators or moderators. Finally, this study is implemented in the context of small and medium firms, the future research might investigate the correlation among the construct in broad context to consolidate the findings of the paper.

Overall, our study has provided empirical evidence to highlight that transformational leadership and organizational learning significantly contribute to improve firm innovation capability. The findings are encouraged to bring more deeply understanding about the right pathway for directors/managers to follow aimed at enhancing organizational learning and two specific aspects of innovation in small and medium firms. Specifically, by paying great attention on practicing transformational leadership style, they can successfully foster learning capability and innovation capabilities for their firms.

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