

# THE RELATIONSHIP BETWEEN ORGANIZATIONAL CULTURE AND INNOVATION THROUGH VIETNAMESE EMPLOYEE'S PERSPECTIVE

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## **Abstract:**

*In a globalized business setting, a national culture that impacts strongly innovation is of utmost importance especially in developing countries that expect to improve income levels and compete globally. Since organizational culture is embedded in national culture, studying culture at the organizational level is apt especially when organizational culture and innovation have been found to increase performance. This study examines relationship between organizational culture and innovation through Vietnamese employees' perspective. More specifically, cultural traits of Empowerment, Team Orientation, Capability Development, Creating Change, Customer Focus and Organizational Learning on Innovation are considered in this paper. The respondents include 130 Vietnamese employees in both the private and public sectors. The results showed that Organizational learning, capability development, team orientation, creating change were found to be significant contributors to Innovation new to the organization and Innovation new to the industry. Implications and future recommendations are also discussed in this paper.*

*Keywords: organizational culture, innovation, Vietnamese employees.*

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## **1. Introduction**

Since the mid-1980s, through the “Doi Moi” policy, Vietnam has made a shift from a highly centralized planned economy to a socialist oriented market economy. Over that period, the economy has experienced rapid growth. At present, Vietnam is in a period of being integrated into the global economy. However, almost all Vietnamese enterprises are small and medium enterprises and lack of competitiveness, especially in this global market. In order to take advantage of opportunities and overcome challenges in the market in long term, Vietnam firms need to set focus on the

root problems, especially innovation. In fact, innovation is central to building a proactive and entrepreneurial organization (Johannessen

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et al., 2001) that has become widely recognized as a key to competitive success (Francis and Bessant, 2005).

Besides, organizational culture is an aspect that appears in each internal company in order to enhance the work performance and create environment for innovation activities. Some researchers showed that strong cultures ranked higher in new product development and expected to grow more in the future, based on growth assumptions in their stock prices. A balanced culture on the other hand, can help an organization be innovative (Ashley and Bryan, 2009). Some have also found that traits of involvement and adaptability are important to execution and implementation resulting in innovation (Denison, 1990; Denison and Mishra, 1995; Kotter and Heskett, 1992; Sorenson, 2002).

In recent years, as my best understandings, there are plenty of researches about innovation on companies deeply, but in Vietnam, it is very little. There is less innovation research on particular business to test the effects of innovation on firm performance. Therefore, the main purpose of the research is to identify the influence of organizational culture on innovation. More specifically, this study based on Denison's model to analyze influence of organizational culture on innovation through Vietnamese employee's perspective and then provides the recommendations and implications for academics and practitioners based on the analyses.

## 2. Literature review

### *Organizational culture*

Organizational culture is the set of the values, beliefs, and behavior patterns that represent the core identity of an organization

and has a significant role in making up behavior of employees (Rashid, 2003). In other words, it includes values, concepts, and patterns, which are commonly learned and accepted and institutionalized by members of a group working in an organization (Lawson and Shen, 1998). Such a culture gives the members of an organization a unique identity and it contributes to increase group commitment and consolidates their social system.

Organizational culture is a complex phenomenon; nevertheless, it has an important effect on accelerating the progress trend and renovation of an organization. Thus, an organization will actually face with various problems such as organization conflict, non-integrity of organization and decreased performance if it does not consider its organizational culture and the dimensions as well as the indicators of it adequately. Hence, familiarity with organizational culture helps the managers to capture the strengths by understanding the atmosphere dominating the organization and taking necessary actions for predicating the weaknesses (Rahimnia and Alizadeh, 2008).

Organizational culture includes an organization's expectations, experiences, philosophy, and values that hold it together, and is expressed in its self-image, inner workings, interactions with the outside world, and future expectations. It is based on shared attitudes, beliefs, customs, and written and unwritten rules that have been developed over time and are considered valid.

In this study, the Denison organizational culture model as well as its definition of organizational culture is applied. Denison (1996) argued that behavior being the

outcome of underlying assumptions, values and beliefs, drives results. Behavior being the most obvious dimension of culture is a practical and appropriate approach to explore when one's research interest is on how culture drives results. Here, we want to explore one particular behavior, which is innovation, which when applied effectively, especially in processes, brings huge strategic gains (Rosenbush, Brinkmann and Bausch, 2011).

### ***Innovation***

Innovation is widely regarded as a critical source of competitive advantage in an increasingly changing environment (Dess and Picken, 2000; Tushman and O'Reilly, 1996). According to management scholars, innovation capability is the most important determinant of firm performance (Mone et al., 1998). One of the primary definitions of innovation was coined by Schumpeter in the late 1920s. According to Schumpeter, innovation is reflected in novel outputs: a new good or a new quality of a good; a new method of production; a new market; a new source of supply; or a new organizational structure, which can be summarized as 'doing things differently'. West and Farr (1990) defined innovation as "the intentional introduction and application within a role, group or organization of ideas, processes, products or procedures, new to the relevant unit of adoption, designed to significantly benefit the individual, group, organization or wider society". Rogers (1995) defines innovation as an 'idea, practice or object that is perceived to be new by an individual or other unit of adoption'.

Apart from introducing new and improving

existing technologies and processes, enhancing management practices are also viewed as innovation (Johannessen et al., 2001).

Innovation is also regarded as newness, as suggested by Johannessen et al., (2001) in which case these researchers inferred, firstly, newness provides the beginning of employing innovation concepts. Secondly, newness can be an indicator of establishing organizational competitive advantages that are sustainable when intellectual capital is the outcome that inspire creativity and improve organizational performance. This study considers innovation as a process that involves the generation, adoption, implementation and incorporation of new ideas, practices or artefacts within the organization (Van de Ven et al., 1989).

In addition, innovation is also classified in two types as radical and incremental, according to its degree of novelty (Dewar and Dutton, 1986). Radical innovation is doing something different, incremental innovation is doing what we do but better.

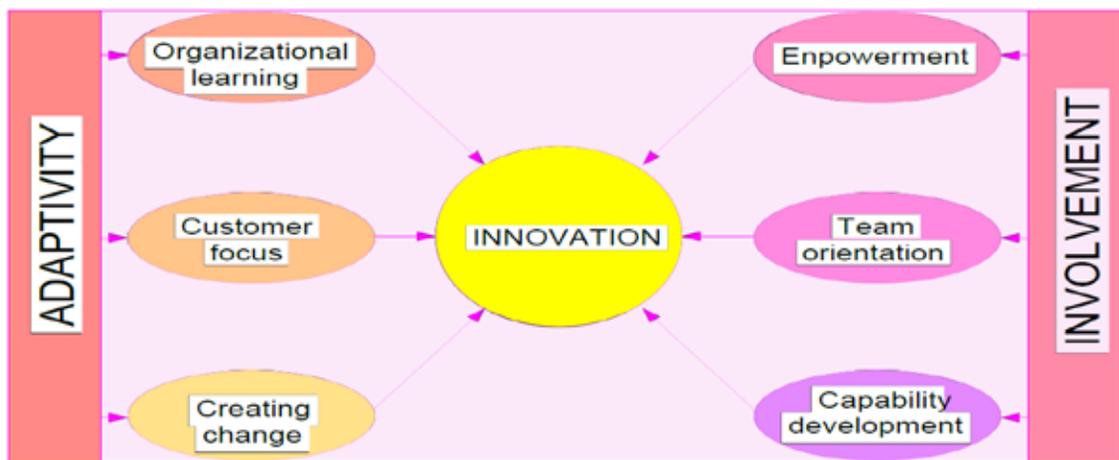
### ***Organizational culture and innovation***

Since studies have found innovation for improving performance (Rosenbush, Brinkmann and Bausch, 2011) organizations have been aggressively instilling innovation in its culture, especially high-tech companies. Nonetheless, even in non-tech industries such as the insurance industry, Lee and Yu (2004) found that an innovation-orientated culture helps insurance firms improve growth in business.

The organization is called innovation that means organizations do not only give creative ideas, instead that ideas must be implemented. However successful implementation of creative

ideas demand for a certain set of behaviors, norms and values which differ from merely producing creative ideas. In other words, generation of creative ideas alone does little for the organization, what is highly important is the effective implementation of those creative ideas (Flynn and Chatman, 2001). In addition, high involvement and adaptive cultures help foster creativity in terms of generation of ideas and implementation (Denison, 1996).

Based on the various cultural dimensions of Denison model, this study explored cultural dimensions that would promote innovation and in particular, within the setting of Vietnamese firms. According to Denison model, there are six cultural dimensions including empowerment, team orientation, capability development, creating change, customer focus and organizational learning (Figure 1).



**Figure 1: Conceptual framework based on Denison (1996)**

Empowerment enables individuals to have the authority, initiative, and ability to manage their own work, which creates a sense of ownership and responsibility toward the organization (Denison, 1996). The results seen in an empowered workforce are higher quality products and services, better decision making, and better problem solving which, in turn, result in greater organizational effectiveness, which includes innovation (Denison, 1984)

**Hypotheses 1 (H1):** *There is a substantial relationship between empowerment and innovation.*

Team orientated culture emphasizes cooperation toward common goals for which

all employees feel mutually accountable. Co-operate teams are identified by some researchers as having an influence on the degree to which creativity and innovation take place in organizations. Well established working teams which allow for diversity and individual talents that complement one another should promote creativity and innovation (Arad et al., 1997).

**Hypotheses 2 (H2):** *There is a substantial relationship between team orientation and innovation.*

Capability development is another trait of organization that helps innovation. An organization that continually invests in the

development of employees' skills tends to stay competitive and meet on-going business needs (Denison and Mishra, 1995). This is seen as shaping the building blocks of key resources in organizations. Internally developing human capital helps firms realize the benefits of these employees in terms of their value creating potential.

**Hypotheses 3 (H3):** *There is a substantial relationship between capability development and innovation.*

A culture that is flexible and agile adaptably translates the demands of the organizational environment into action. An adaptable culture sees employees taking risks, learning from their mistakes, and has the capability and experience at creating change (Senge, 1990). An organization that creates change is able to read the business environment, react quickly to current trends, and anticipate future changes (Denison, 1995).

**Hypotheses 4 (H4):** *There is a substantial relationship between creating change and innovation.*

Customer focus is another cultural dimension that is important for innovation. Customer focusing organizations tend to learn ways to understand and react to their customers and anticipate customer's future needs (Denison and Mishra, 1995).

**Hypotheses 5 (H5):** *There is substantial relationship between customer focus and innovation.*

Most studies consider that learning takes new ideas into the organization, increases the capacity to understand new ideas, and strengthens creativity and the ability to spot

new opportunities. In other words, it favors the presence of innovation (Damanpour, 1991). Moreover, the organization receives, translates, and interprets signals from the environment into opportunities for encouraging innovation, gaining knowledge, and developing capabilities.

**Hypotheses 6 (H6):** *There is a substantial relationship between organizational learning and innovation.*

### 3. Research methodology

This study obtained data from questionnaire survey that consisted of two main contents. The first and second ones cover statements of organizational culture and innovation variables, respectively. The organizational culture questionnaire, which was adopted from Denison (1996) comprised of six dimensions (Empowerment, Team orientation, Capability development, Creating change, Customer focus, Organizational learning) with total of 30 items. The innovation questionnaire was adopted from Johannessen et al. (2001), which comprises of 12 items to assess the innovation level of that organization. The innovation variable includes two dimensions, namely innovation perceived to be new to the organization and innovation perceived to be new to the industry. Detailed information of all items or variables is in Table 1 below. Both the organizational culture and innovation measures used a 5-point Likert scale – from 1 – Strongly Disagree to 5 – Strongly Agree.

This study used convenient sampling method in which the respondents comprised of part-time MBA students of University of Economics and Business, Vietnam National University. The MBA students are ones who are working for different organizations of both

private and public. They can be employees or managers who study MBA of the University to improve their knowledge and skills. Due to adoption of scale measurement confirmed from previous studies (Denison, 1996; Johannessen et al., 2001), the questionnaire was smoothly translated into Vietnamese without need of a pilot test. The questionnaire survey was conducted during March, 2014.

About 200 copies of questionnaires were sent out to the MBA students at the university. The response rate was 65% that is quite high. Therefore, the analysis sample for this study was 130. Analysis methods were used in this paper including reliability, factor analysis and multiple regressions to test all these hypotheses. The data was analyzed using the SPSS software version 18.0.

**Table 1. Variables of organizational culture and innovation**

| Denote                        | Label                    | Explanation   |
|-------------------------------|--------------------------|---|
| <b>Empowerment</b>            |                          |   |
| E1                            | Empowerment 1            | Most employees are highly involved in their work  |
| E2                            | Empowerment 2            | Decisions are usually made at the level where the best information is available   |
| E3                            | Empowerment 3            | Information is widely shared so that everyone can get the information he or she needs when it's needed                  |
| E4                            | Empowerment 4            | Everyone believes that he or she can have a positive impact   |
| E5                            | Empowerment 5            | Business planning is ongoing and involves everyone in the process to some degree  |
| <b>Team orientation</b>       |                          |   |
| T1                            | Team orientation 1       | Cooperation across different parts of the organization is actively encourages   |
| T2                            | Team orientation 2       | People work like they are part of a team  |
| T3                            | Team orientation 3       | Team work is used to get work done, rather than hierarchy   |
| T4                            | Team orientation 4       | Team are our primary building blocks  |
| T5                            | Team orientation 5       | Work is organized so that each person can see the relationship between his or her job and the goals of the organization |
| <b>Capability development</b> |                          |   |
| CD1                           | Capability development 1 | The ways things are done is very flexible and easy to change  |
| CD2                           | Capability development 2 | We respond well to competitors and other changes in the business environment  |
| CD3                           | Capability development 3 | New and improved ways to do work are continually adopted  |

|  |                           |  |
|--|---------------------------|--|
| CD4  | Capability development 4  | Attempts to create change usually meet with resistance                       |
| CD5  | Capability development 5  | Different parts of the organization often cooperate to create change         |
| <b>Creating change</b>   |                           |  |
| CC1  | Creating change 1         | The ways things are done is very flexible and easy to change                 |
| CC2  | Creating change 2         | We respond well to competitors and other changes in the business environment |
| CC3  | Creating change 3         | New and improved ways to do work are continually adopted                     |
| CC4  | Creating change 4         | Attempts to create change usually meet with resistance                       |
| CC5  | Creating change 5         | Different parts of the organization often cooperate to create change         |
| <b>Customer focus</b>  |                           |  |
| CF1  | Customer focus 1          | Customer comments and recommendations often lead to changes                  |
| CF2  | Customer focus 2          | Customer input directly influences our decisions                             |
| CF3  | Customer focus 3          | All members have a deep understanding of customer wants and needs            |
| CF4  | Customer focus 4          | The interests of the customer often get ignored in our decisions             |
| CF5  | Customer focus 5          | We encourage direct contact with customers by our people                     |
| <b>Organizational learning</b>   |                           |  |
| OL1  | Organizational learning 1 | We view failure as an opportunity for learning and improvement               |
| OL2  | Organizational learning 2 | Innovation and risk taking are encouraged and rewarded                       |
| OL3  | Organizational learning 3 | Lots of things” fall between the cracks”                                     |
| OL4  | Organizational learning 4 | Learning is an important objective in our day-to-day work                    |
| OL5  | Organizational learning 5 | We make certain that the: right hand knows what the left hand is doing       |
| <b>Incremental innovation:</b> Has your company made changes during the last three years that were perceived to be new for the company, within the following areas?? |                           |  |

|     |                          |                           |
|-----|--------------------------|---------------------------|
| II1 | Incremental innovation 1 | New products              |
| II2 | Incremental innovation 2 | New services              |
| II3 | Incremental innovation 3 | New methods of production |
| II4 | Incremental innovation 4 | Opening new markets       |
| II5 | Incremental innovation 5 | New sources of supply     |
| II6 | Incremental innovation 6 | New ways of organizing    |

**Radical innovation:** Has your company made changes during the last three years that were perceived to be new to the industry in which the company operates, within the following areas?

|     |                      |                           |
|-----|----------------------|---------------------------|
| RI1 | Radical innovation 1 | New products              |
| RI2 | Radical innovation 2 | New services              |
| RI3 | Radical innovation 3 | New methods of production |
| RI4 | Radical innovation 4 | Opening new markets       |
| RI5 | Radical innovation 5 | New sources of supply     |
| RI6 | Radical innovation 6 | New ways of organizing    |

#### 4. Research results

##### *Data description*

**Table 2. Demographic profile of respondents**

| Characteristic              | N   | Percentage |
|-----------------------------|-----|------------|
| <b>Gender of responders</b> |     |            |
| Male                        | 59  | 45.4       |
| Female                      | 71  | 54.6       |
| Total                       | 130 | 100        |
| <b>Age (years)</b>          |     |            |
| 20-29                       | 64  | 49.2       |
| 30-39                       | 50  | 38.5       |
| 40-49                       | 12  | 9.2        |
| Over 50                     | 4   | 3.1        |
| <b>Type of organization</b> |     |            |
| State ownership company     | 33  | 25.4       |
| Partnership                 | 2   | 1.5        |
| Limited liability company   | 49  | 37.7       |

|                             |    |      |
|-----------------------------|----|------|
| Private                     | 10 | 7.7  |
| Joint stock company (JSC)   | 34 | 26.2 |
| Joint venture company (JVC) | 2  | 1.5  |
| <b>Current job position</b> |    |      |
| Director                    | 1  | 0.8  |
| CFO                         | 5  | 3.8  |
| Engineer                    | 15 | 11.5 |
| Banker                      | 9  | 6.9  |
| Employees                   | 68 | 52.3 |
| CEO                         | 10 | 7.7  |
| Accountant/administrator    | 22 | 16.9 |

The profile of respondents is showed in Table 2, it can be seen from Table 1 that the number of age between 20 and 29 occupies a largest percentage (49.2%); The second position is the age of 30-39 (38.5%); Over 50 only keep 3.1%. Most of the respondents

are belonging to Limited liability Company (37.7%), while type of organization of partnership and Joint venture Company make up same percentage of 1.5. Similarly, current job position has also the largest number of employees (52.3%).

**Table 3. Descriptive analysis**

|                         | Mean | Std. Deviation |
|-------------------------|------|----------------|
| Organizational learning | 3.25 | .86            |
| Customer focus          | 3.43 | .57            |
| Capability development  | 3.03 | .74            |
| Team orientation        | 3.34 | .67            |
| Creating change         | 3.45 | .75            |
| Empowerment             | 3.56 | .58            |
| Incremental innovation  | 2.76 | .65            |
| Radical innovation      | 2.74 | .65            |

As Table 3 indicated, organizational culture scores for six components ranges from 3.5 to 3.99. Employees assessed organizational culture at a fairly high level. Meanwhile, mean score for radical innovation of 2.76 is slightly higher than that of incremental innovation, which is 2.74

**Table 4. Reliability statistics of the variables**

| Variables               | Items | Cronbach's Alpha |
|-------------------------|-------|------------------|
| Empowerment             | 5     | 0.762            |
| Team orientation        | 5     | 0.883            |
| Capability development  | 5     | 0.887            |
| Creating change         | 5     | 0.868            |
| Customer focus          | 5     | 0.879            |
| Organizational learning | 5     | 0.924            |
| Incremental innovation  | 6     | 0.860            |
| Radical innovation      | 6     | 0.863            |

**Table 5. Exploratory Factor Analysis**

| items | Component |       |       |       |       |       |
|-------|-----------|-------|-------|-------|-------|-------|
|       | 1         | 2     | 3     | 4     | 5     | 6     |
| OL5   | 0.981     |       |       |       |       |       |
| OL1   | 0.857     |       |       |       |       |       |
| OL2   | 0.855     |       |       |       |       |       |
| OL3   | 0.839     |       |       |       |       |       |
| OL4   | 0.832     |       |       |       |       |       |
| CF4   |           | 0.931 |       |       |       |       |
| CF5   |           | 0.889 |       |       |       |       |
| CF2   |           | 0.761 |       |       |       |       |
| CF1   |           | 0.74  |       |       |       |       |
| CF3   |           | 0.738 |       |       |       |       |
| CD5   |           |       | 0.947 |       |       |       |
| CD3   |           |       | 0.817 |       |       |       |
| CD2   |           |       | 0.798 |       |       |       |
| CD1   |           |       | 0.762 |       |       |       |
| CD4   |           |       | 0.702 |       |       |       |
| T5    |           |       |       | 0.904 |       |       |
| T4    |           |       |       | 0.855 |       |       |
| T3    |           |       |       | 0.771 |       |       |
| T1    |           |       |       | 0.758 |       |       |
| T2    |           |       |       | 0.649 |       |       |
| CC5   |           |       |       |       | 0.898 |       |
| CC3   |           |       |       |       | 0.89  |       |
| CC4   |           |       |       |       | 0.863 |       |
| CC1   |           |       |       |       | 0.669 |       |
| CC2   |           |       |       |       | 0.614 |       |
| E4    |           |       |       |       |       | 0.759 |
| E2    |           |       |       |       |       | 0.713 |
| E3    |           |       |       |       |       | 0.702 |
| E1    |           |       |       |       |       | 0.657 |
| E5    |           |       |       |       |       | 0.594 |

Table 4 shows that Cronbach's Alpha coefficients of all variables are also greater than 0.7 and thus these scales are reliable for next analyses. KMO test and Bartlett's test were examined before fulfilling factor analysis (EFA). The KMO index ranges from 0 to 1, with 0.5 suggested as the minimum value for a good factor analysis (Tabachnick and Fidell, 2001). After using EFA (Table 5), results showed six factors of organizational culture variables and two factors for incremental innovation, and radical innovation.

**Regression results for incremental innovation**

Regression results for incremental innovation shows in Table 6 R square of 0.334 that means model explains 33.4% of variance in incremental innovation. Table 7 shows that variables including *customer focus* and *empowerment* are not statistically significant at 5%, thus these hypotheses (H1 and H5) are rejected. The other variables (hypotheses H2, H3, H4, H6) have values of significances that are smaller than 0.05 and thus they are accepted. From standardized coefficients values, they reveal strong or low impact of organizational culture on innovation among variables. It can be seen that organizational

learning and team orientation will perform a stronger contribution than other variables to explaining innovation

**Table 6. Standard Multiple Regression between organization culture and incremental innovation**

| Model | R                 | R Square | Adjusted R Square | F      | Sig.              |
|-------|-------------------|----------|-------------------|--------|-------------------|
| 1     | .578 <sup>a</sup> | .334     | .302              | 12.804 | .000 <sup>a</sup> |

*a* A pendent variable: incremental innovation  
 Dependent variable: incremental innovation

**Regression results for radical innovation**

Regression results for radical innovation shows in Table 8 R square of 0.384 that means model explains 38.4% of variance in radical innovation. Table 9 also shows that variables including *customer focus* and *empowerment* are not statistically significant at 5%, thus these hypotheses (H1 and H5) are rejected. The other variables representing hypotheses H2, H3, H4, H6 have values of significances that are smaller than 0.05 and thus they are accepted. From standardized coefficients values, it also can be seen that organizational learning and team orientation will perform a stronger contribution than other variables to explaining the radical innovation

**Table 7. Coefficients between organization culture and incremental innovation**

| Model                   | Unstandardized Coefficients |            | Standardized Coefficients | T      | Sig. |
|-------------------------|-----------------------------|------------|---------------------------|--------|------|
|                         | B                           | Std. Error | Beta                      |        |      |
| (Constant)              | -.454                       | .436       |                           | -1.042 | .299 |
| Organizational learning | .176                        | .057       | .232                      | 3.095  | .002 |
| Customer focus          | .118                        | .091       | .103                      | 1.300  | .196 |
| Capability development  | .181                        | .074       | .206                      | 2.438  | .016 |
| Team orientation        | .219                        | .084       | .226                      | 2.595  | .011 |
| Creating change         | .146                        | .069       | .169                      | 2.111  | .037 |
| Empowerment             | .123                        | .094       | .110                      | 1.304  | .195 |

**Table 8. Standard Multiple Regression between organization culture and radical innovation**

| Model | R     | R Square | Adjusted R Square | F      | Sig.  |
|-------|-------|----------|-------------------|--------|-------|
| 1     | .620a | .384     | .354              | 10.281 | .000a |
|       |       |          |                   |        |       |

*a A pendent variable: incremental innovationn Dependent variable: radical innovation*

**Table 9. Coefficients between organization culture and radical innovation**

| Model                   | Unstandardized Coefficients |            | Standardized Coefficients | T      | Sig. |
|-------------------------|-----------------------------|------------|---------------------------|--------|------|
|                         | B                           | Std. Error | Beta                      |        |      |
| (Constant)              | -.542                       | .421       |                           | -1.289 | .200 |
| Organizational learning | .213                        | .055       | .280                      | 3.871  | .000 |
| Customer focus          | .065                        | .088       | .056                      | .742   | .459 |
| Capability development  | .164                        | .072       | .185                      | 2.280  | .024 |
| Team orientation        | .257                        | .081       | .264                      | 3.154  | .002 |
| Creating change         | .201                        | .067       | .231                      | 3.006  | .003 |
| Empowerment             | .096                        | .091       | .085                      | 1.053  | .294 |

In conclusion, there are four hypotheses accepted – organizational learning, team orientation, capability development and creating change, which have positive impact on both incremental and radical innovation (Table 10) . Therefore, this paper would provide a partial support for the relationship between organizational culture and innovation through employee’s perspective.

**Table 10. Summary of Hypotheses**

| Hypotheses   | Results         |
|--|-----------------|
| H1: Empowerment has positively significant impact on innovation            | Not supported   |
| H2: Team orientation has positively significant impact on innovation       | Fully supported |
| H3: Capability development has positively significant impact on innovation | Fully supported |

|   |                 |
|---|-----------------|
| H4: Creating change has positively significant impact on innovation         | Fully supported |
| H5: Customer focus has positively significant impact on innovation          | Not supported   |
| H6: Organizational learning has positively significant impact on innovation | Fully supported |

**Findings and discussions**

The findings of this study showed that four variables over six ones were related to innovation – team orientation, creating change, capability development, and organizational learning. Hence our statistical results provided a partial support for the relationship between organizational culture and innovation of Vietnamese employees in this study. These findings did not totally support earlier studies, which found organizational culture to be

positively associated with innovation (Ashley and Bryan, 2009). One possible explanation is that majority of respondents came from local firms, especially 33% state-owned firms, compared to joint venture companies of only 2%. One can anticipate that organizations with foreign factors, especially MNCs are generally more aggressive in developing innovation as opposed to locally-owned companies. Foreign firms are superior to Asian companies in product and process innovation and technological development (Luo, 2001). They have been more innovative, transferred more technologies to local firms, and have made greater commitments to quality control and adapting technology to suit the needs of local consumers (Luo, 2001). Local companies, by contrast, generally make fewer commitments of product and market development in the local market and tend to produce more labor-intensive products.

From the findings, significant correlations exist between creating change, organizational learning with innovation, respectively. The dimensions of Creating Change and Organizational Learning fall under the category of adaptability of Denison's model. Highly adaptive organizations respond to external demands by actively creating changes which at the same time involve some risks that they willingly take and when faced with obstacles learn to find ways to go around it. In situations where mistakes are made, highly adaptive cultures view them as feedback and learn from it to respond to demands from the external environment. Obviously in such a culture, the organization is in a better position to continually respond to and meet the demands of its customers, which is part of innovation. Hence organizations

that insist on cultures with strong adaptability usually experience sales growth and increased market share (Denison and Mishra, 1995). In addition, the dimensions of Team orientation and Capability development fall under the category of involvement. Highly involved organizations create a sense of ownership and responsibility. This sense of ownership grows a greater commitment to the organization and an increased capacity for autonomy.

### **Conclusion and implications**

This paper focused on the relationship between organizational culture and innovation through Vietnamese employee's perspective. Particularly, employees came from many fields in Vietnamese organizations and they were studying MBA level at UEB. 200 questionnaires were sent to MBA students. After using EFA that still kept 42 items of both organizational culture and innovation, these items were divided by eight factors in which six factors were organizational culture and two independent factors came from innovation.

### ***Implications for academics***

Previously, many researchers have ever investigated about relationship between organizational culture and innovation; nonetheless, in Vietnam it is quite new for scholars to perform this study. Especially, this study applied Denison's model to examine the relationship between organizational culture and innovation. Accordingly, this study provides extra new evidence about relationship between organizational culture and innovation in Vietnam. These results may be good references for academics in Vietnam and it can provide empirical evidence for the importance of organizational culture in

predicting innovation despite the fact that the proposed framework was partially validated.

### ***Implications for practitioners***

The results showed that out of six independent variables of organizational culture, four factors *Organizational learning*, *Capability development*, *Team orientation* and *creating change* are statistically significant for innovation. Accordingly, some implications for practitioners will be given:

First of all, importance of organizational learning and creating change show that organization should improve activities of receiving, translating, and interpreting signals from the environment into opportunities for encouraging innovation, gaining knowledge, and developing capabilities.

Secondly, team orientation is the second significant factor to innovation. Team orientation will debate extra new ideas from supporting of employees, and organizations can apply their presentations as well as develop comprehensive employee's skills. Consequently, organizations should rely on team effort to get work done and improve innovation.

Another considerable factor to innovation is creating change. Organizations should focus

on creating adaptive ways to meet changing needs and welcome new ideas that are willing to try new approaches to do things.

Finally, capability development has a lowest significant effect in comparison with the other three factors. However, it is also very important for innovation at any organizations, therefore organizations should invest in the development of employee's skills in order to stay competitive and meet on-going business needs.

### ***Limitations of the study***

Data of organizational culture were gathered for the study through respondents' self-assessments. Data was collected at small space and time was short, this would limit to results of research.

### ***Suggestions for future research***

- Organizational culture should be investigated for the critical positions in the organizations.
- It is worthwhile to include other culture types in future studies to further explore the influence of other cultures on innovation
- Next studies can be researched at broader scope and respondents should be expanded more. □

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