AN EXPLORATORY FACTOR ANALYSIS FOR ENTREPRENEURIAL VALUES BASED DEVELOPMENTAL INTERACTION CAPABILITY

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ABSTRACT
This research will develop a new conceptual model that is Entrepreneurial Values-Based Developmental Interaction Capability (EVBDIC), which is synthesized from the concepts of knowledge, work interaction in organizations, and entrepreneurial values. This study used a survey method for 756 business entrepreneurs and was tested using Exploratory Factor Analysis (EFA) with SPSS software. The test results show that the concept of EVBDIC can be measured by indicators: interaction for updating the work process, interaction for combining knowledge and skills, interacting for increasing individual capacity, idea generation, supporting others to act entrepreneurially.

INTRODUCTION
Knowledge is divided into two forms, namely explicit knowledge and tacit knowledge. Explicit knowledge or sometimes called formal knowledge, can be conveyed in language, also including numbers and words, mathematical signs, specifications, manuals, and others. Explicit knowledge is also ready to be spread to others. Besides, explicit knowledge can be quickly processed by computers, electronic devices, or storage databases. Tacit knowledge is stored in individuals and intangible factors, such as personal beliefs, perspectives, and value systems. Tacit knowledge is difficult to articulate informal language. The contents include their understanding, intuition, and premonition. Before communicating tacit knowledge must be changed in the form of words, models, or numbers that can be understood (Polanyi, 1966).

There are four styles of conversion or knowledge creation obtained from both kinds of knowledge (Nonaka, 2007):

a. Socialization: includes tacit knowledge sharing activities between individuals. The term socialization is used because tacit knowledge is spread through joint activities, such as living together, spending time together - not through writing or verbal instructions. Thus, in some instances, tacit knowledge can only be disseminated if someone feels free to become someone who has more excellent tacit knowledge than others. In practice, socialization is carried out through knowledge capture activities through physical closeness such as the interaction between leaders and followers, leaders and leaders, followers, and followers.

b. Externalization: requires the presentation of tacit knowledge in a more general form so that it can be understood by others. At this stage of externalization, individuals are committed to a group and become one with the group. In practice, externalization is supported by two key factors. (i) articulation of tacit knowledge, i.e., conversion from tacit to explicit, as in dialogue. (ii) translate tacit knowledge from experts into an understandable form, such as documents, manuals, and so on.

c. Combinations include the conversion of explicit knowledge into more complex forms of explicit knowledge sets. In practice, the combination phase depends on the following three processes: (1) capture and integration of new explicit knowledge, including the collection of external data from within or outside the institution, and then combining the data. (2) the dissemination of explicit knowledge through presentations or face-to-face meetings. (3) the processing of explicit knowledge so that it is easier to re-use, for example, planning documents, reports, market data, and so on.

d. Internalization: new knowledge is the conversion of explicit knowledge into tacit organizational knowledge. Individuals must identify knowledge relevant to their needs in the management of that knowledge. In practice, internalization can be done in two dimensions. First, the application of explicit knowledge in direct action and practice. Example through training programs. Second, the mastery of explicit knowledge through simulation, experimentation, or learning while working.

The concept of the knowledge chain was first introduced by Koulopopoulos, Tomis, and Spinello in 1997 when researching to compile the book “Corporate Instinct.” There are four links in the knowledge chain consisting of (Frappaolo, 2017):

a. internal awareness
b. internal responsiveness (internal responsiveness)
c. external responsiveness (external responsiveness)
d. external awareness (external awareness).

Prusak, Quintas, Lefrere, and Jones stated that knowledge management includes the process or practice of creating, acquiring, capturing, sharing, and using knowledge to...
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enrich learning and performance in an organization. Discovery is realized through conversation, debate, uncertainty, and doubt, and discovery is simply a significant result of the wrong idea at the right time or vice versa. Furthermore, creativity is not an experience that just appears, but it is an actual and imagined process of showing ideas [Falk & Adelman, 2003; Moffet, McAdam, & Parkin, 2003].

In addition to knowledge, no less critical in organizational studies is human behavior as a member of the organization. If it is related to the ability of humans as members of an organization to apply the knowledge gained, it will form a creative behavior in solving problems that can be called Entrepreneurial behavior. Entrepreneurial behavior in organizations involves the discovery or development and exploitation of previously unknown opportunities. There is increasing evidence to suggest that such behavior is essential and strategic for renewal, innovation in existing companies. Entrepreneurial behavior tends to vary depending on the individual who is stimulated by the role of management (Deniz, Boz, & Ertosun, 2011; Dutta & Thornhill, 2008; Janney & Dess, 2006; Li, Wang, Huang, & Bai, 2013; Marcati, Guido, & Peluso, 2008; Mustafa, Martin, & Hughes, 2016; Shane, Locke, & Collins, 2003).

Literature Review

Knowledge has developed into a concept that is so influential on the organization, even in specific communities. Knowledge has a crucial impact on organizational achievement. Knowledge can be divided into two perspectives, namely ownership and practical. The ownership perspective regards knowledge as something we already have due to habits, sources of knowledge. Meanwhile, the realistic view considers that knowledge is something done by someone and usually through interaction with the social environment. Knowledge in organizations needs to be organized or managed. The process of managing knowledge is more popular with the terms knowledge management, and knowledge management is very dependent on the role of Knowledge Sharing (Hau, Kim, Lee, & Kim, 2013; Kim & Lee, 2013; Kuah, Wong, & Tiwari, 2013; Zhu, 2016).

Knowledge Sharing is defined as the process by which the exchange of knowledge or experience between individuals within an organization to equip the abilities, skills, and views of the individual to produce maximum results to the individual or organization. Knowledge is a tangible asset; so it is effortless and possible to be shared with others in equipping themselves. Knowledge Sharing is the process of communication between people in an organization and in that process sharing information or ideas, or knowledge is shared (Raab, Ambos, & Tallman, 2014; Reychav & Te’eni, 2009; Yesil, Koska, & Büyükdede, 2013).

The process of interaction within an organization is essential for achieving organizational goals. This interaction occurs between leaders, followers, and coworkers will educate each individual to improve their skills and competencies; this is what is called the concept of developing interaction [Karak, Bove, Luke, & Zephyr, 2015].

The practice of knowledge sharing that occurs in each individual will involve cognitive and affective processes. The cognitive process means that the individual will know and clarify the work and its attributes. While the effective method will energize individuals to have positive feelings, be responsible, responsive, interested in sharing knowledge, be strongly motivated to find the best solution, inspire, and be inspired to always act creatively in improving performance. Significant efforts have been devoted to understanding entrepreneurial interaction behavior. Until now, it has been shown that a combination of individual and organizational factors can facilitate entrepreneurial interaction behavior. At the organizational level, factors such as management support, management policies, rewards, time availability, have all been repeatedly found to influence entrepreneurial interaction behavior. Through this process, developmental interaction will occur which will form individuals to be able to create entrepreneurial added values in their work-life which in this study is called the concept of entrepreneurial values based on developmental interaction capability (Budworth, 2011; Deniz et al., 2011; Dutta & Thornhill, 2008 Han, Lee, Beyerlein, & Kolb, 2017; Janney & Dess, 2006; Li et al., 2013; Marcati et al., 2008; Matošková & Směšná, 2017; Mustafa et al., 2016; Shane et al., 2003; Sulistyani & Ferdinad, 2018).

Entrepreneurial Values-based developmental interaction capability makes a person have new knowledge and abilities about a matter because it makes the learning environment in the organization more effective and efficient. Organizations do not need to incur high costs in equipping someone to gain knowledge and abilities on a matter.

In Entrepreneurial Values-based developmental interaction capability, there is an exchange of knowledge or experience between individuals in an organization to equip the abilities, skills, and views of the individual to produce maximum results for the individual or organization. These things are tangible assets, so it is straightforward and possible to be shared with others in equipping themselves. Through the process of communication between people in an organization, sharing information or ideas or knowledge is shared. With adequate information or data, an individual’s ability will develop, be it performance, the ability to decide on something, and make the individual more creative, because creativity requires new knowledge or information (Brandstättler, 2011; Budworth, 2011; De Clercq, Dimov, & Thongpapanl, 2010; Deniz et al., 2011; Han et al., 2017; Matošková & Směšná, 2017; Mustafa et al., 2016; Phillips, Tracey, & Karra, 2013; Restuccia, 2009; Shane et al., 2003; Sulistyani & Ferdinad, 2018).

The formation of constructive work interactions in organizations is strongly influenced by the work environment which is oriented to growth (Crouter, 1984; Dziallas, 2018; Elkeur & Shye, 1990; Ferdinad, 2014; Gillespie, 2011), so this work interaction determines whether the leader will perform empowering followers to mature and become future leaders. The concept of empowerment has been widely studied in previous research, for example in the concept of
Exploratory Factor Analysis (EFA) is a statistical method used to identify the relationship between manifest variables or indicator variables in constructing a construct. EFA is used in conditions where researchers do not have preliminary information or hypotheses that must be grouped into any variable set of indicators that have been made. So, the researcher departs from the indicator (manifest) then forms a variable. EFA is also used in conditions where latent variables have unclear indicators. One latent variable indicator may overlap with other latent variable indicators (Asparouhov & Muthén, 2009; Henson & Roberts, 2016; Reio & Shuck, 2014).

This study uses SPSS software to analyze EFA. The input used is data from indicator variables. Because there is no assumption as to where the indicators will cluster, usually in the EFA analysis, it is unknown how many latent factors or variables will be formed. Measures that indicate that an indicator is included in a particular indicator in the EFA is the value of the loading factor. When the value of loading an indicator is greater than one particular factor, then the indicator can be grouped into these factors (Hayton, Allen, & Scarpello, 2016; Tabachnick & Fidell, 2019). The study used a sample of 756 respondents who were business start-up employees in Indonesia.

Results and Discussions
The EFA test requirements are as follows (Fabrigar et al., 1999; Hayton et al., 2016; Henson & Roberts, 2016; Reio & Shuck, 2014; Tabachnick & Fidell, 2019; Watkins, 2018):

1. KMO and Bartlett’s Test values must be high (minimum> 0.5)
2. Components Matrix must be in 1 column
3. If there are numbers contained in 2 columns, then the indicator must be discarded, then reprocessed until the matrix data is in 1 column

From data processing, 756 respondents who obtained the results as in table 1 and table 2 as follows.

Table 1. KMO and Bartlett’s Test (Sequence 1)
In table 1, the KMO and Bartlett’s Test scores show 0.916, which means that the results meet the requirements because the value is more than 0.5. In table 2, all the measurement indicators are in one column matrix component, so testing at this stage is immediately declared to meet the requirements, and there are no indicators eliminated and grouping accordingly.

Conclusions
Through the results of the EFA test above, it can be concluded that the measurement of Entrepreneurial Values-Based Developmental Interaction Capability (EVBDIC) can be done with the following indicators:
1. Interaction for updating work process.
2. Interaction for combining knowledge and skills.
3. Interaction for increasing individual capacity.
4. Idea generation.
5. Supporting others to act entrepreneurially.

In future studies, the concept of PWE can be used to examine the relationship between antecedents and consequences variables in the same context as this study and different settings.

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