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PRACTICING ENTREPRENEURIAL LEARNING AS LEARNING METHOD AT MIDDLE SCHOOL STUDENTS

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Abstract: Entrepreneurship education as method needs further exploration in the context of school. Entrepreneurship Center of Ciputra University collaborated with a number of schools in Indonesia developed the K-12, Ciputra Way Learning Cycle. As many as 355 final year students from six schools were involved in this study to gain better understanding towards the factors influencing entrepreneurial competences. Using the method of Structural Equation Model (SEM), result shows that growth orientation, assessment for improvement, positively influence entrepreneurial competences.

Keywords: assessment for improvement, entrepreneurial competence, entrepreneurship performance project, feedback seeking, growth orientation, learning engagement

Introduction

Entrepreneurship education (EE) is recommended to begin with the exploration self-potential of opportunity recognition, encouraging self-confidence, and dealing with fear of failure (Kelley, Singer & Herrington, 2011). It is aimed to be an innovative problem solving approach to support “high readiness for change, self-confidence, and creativity” (Heinonen & Poikkijoki, 2006:81). EE is considered a method to “unleash human potential” (Sarasvathy dan Venkataraman, 2010:115) and to enhance the level of competitiveness (Gibb, 2002, 2006, 2011) as well as to develop individual potentials in various parts of professional life through learning process (Jones & Iredale, 2010, Fayolle and Gailly, 2008). The learning process will be latterly referred as entrepreneurial learning. Entrepreneurship as a method offers an opportunity as well as a challenge for entrepreneurship educators to develop a more adaptive entrepreneurial learning model that breaks the constraints of business perspective (Gibb, 2002; Jones & Iredale, 2010; Pepin, 2012). Entrepreneurial learning outcomes, learning strategies and assessment approach for this context still need further clarification. The explanation of competence as a learning outcome (Jennings, Edwards, Devereaux Jennings, & Delbridge, 2014), experiential learning as learning strategy (Wing & Man, 2012), as well as authentic assessment as assessment methods (Neck & Greene, 2011) still leave a question of how those the components are correlated.

Kolb’s experiential learning (C. L. Wang & Chugh, 2014) and Man’s entrepreneurial learning model (Man, 2012) offer a clearer alternative of entrepreneurial learning model. Both proposed the transformational experiences as the basic of learning. However, aspects of stu-
school students’ context such as perceived autonomy and values as well as learning motivation need to be considered as parts of contributing factors in the process of entrepreneurial learning achievement. Mastery orientation or growth mindset which has been proved to be correlated with students learning achievement (Dweck & Leggett, 1988; Elliott & Dweck, 1988; Haimovitz & Dweck, 2016) need considering to contribute to the formation of entrepreneurial competences.

Another challenge appears from teaching-learning practices. Most of business schools still emphasize on the broadening knowledge and preparing individuals to create a venture and there is only 13 per cent of entrepreneurship courses of are offered as a method, meanwhile in non-business schools, entrepreneurship as a method has not been conducted as part of their course framework. (Pittaway dan Edwards, 2012).

University of Ciputra Entrepreneurship Center (UCEC) in Indonesia initiated the development of an entrepreneurial learning model for K-12 learners. It is a cycle of learning model which includes five stages of learning, which are: (1) exploring, stage of facilitating students to build understanding and discover their ideas of innovation; (2) planning, stage of implementing the ideas into a work plan; (3) doing, stage of executing the designed plan; (4) communicating, stage of introducing the outcome to the community; (5) reflecting, stage of measuring the success and identifying possible improvements. However they still fail to convince that their model which widely applied at Indonesian schools does give contribution to the entrepreneurial competences as they expect.

Responding to the shortcomings mentioned, this study is aimed to identify factors influencing entrepreneurial competences among middle school students. By referring to achievement goal theory, especially mastery learning orientation, this study is focused on the influence of growth orientation, entrepreneurial project performance, and perceived assessment for learning towards entrepreneurial competences. By using Ciputra Way Entrepreneurial learning model, the study is aimed to prove that entrepreneurial learning proses, learning growth orientation and assessment for improvement give positive contribution to the entrepreneurial competences.

Entrepreneurial Learning

A simple explanation of entrepreneurial learning is a mechanism of “what and how individual entrepreneurs learn” (Wang and Chugh, 2014:30). It is a process of generating value (Henry, Hill, & Leitch, 2005) by practicing or learning by doing which involves emotion and capability (Fiet, 2000; Pepin, 2012), and an experiential interaction between learners and their environment (Corbett, 2005, 2007). It is also grounded by a positive attitude towards the aimed results (Gibb, 2002, 2011) and self-directed learning processes with the aspects of goal setting, self-monitoring, and self-management (Tseng, 20113).

In accordance with the two core processes of entrepreneurship which are exploration and exploitation (Shane & Venkataraman, 2000), EL involves exploratory learning which is focused on the process of discovery and interpretation to find ideas and to execute them (Wang & Chugh, 2014). These two processes demand a transformation from action, interaction, or collaboration with various stakeholder (Sarasvathy & Venkataraman, 2010).

Another essential point is reflection. It is important because learners should be able to internalize the lesson learned as acquired from
prehension which tends to persist longer rather than the aspect of apprehension, therefore those aspects is considered to be complementary to each other.

EL threats learners as autonomous individuals. They may set up their own learning target as well as monitoring and evaluate their learning process and achievement. Students learn to face the unexpected situations and respond it using their problem solving skills. Learning environment reflects authenticity of the real-world professional situations (Kozkinska, 2011).

Ciputra Way Entrepreneurial Learning (CWEL)

Ciputra Way Entrepreneurial Learning was designed to facilitate learners to be more entrepreneurial and to emphasize the forming of mindset of thinking and acting entrepreneurially (Ciputra, 2008). This type of learning process is aimed at the development of creativity and innovation skills therefore it will enhance students professional behaviours as well as competitiveness level. Ciputra (2008:83) stated, “I believe that entrepreneurship skill will be highly valuable for any professions. Therefore, spreading entrepreneurship skill will definitely give positive and productive benefit for people”.

Tanan (as cited in Ciputra, 2008:96) added “We highlight on the construction of particular mindset, character, and skill that will finally lead to the skill to create opportunity to innovate and to calculate risks”.

In order to meet the aforementioned expectation, CWEL emphasizes on the enhancement of opportunity recognition capability, creativity development, and innovation, as well as calculated risk taking (UCEC, 2009) which is conducted through 3 main processes including exploration, execution, and reflection. Exploration consists of two sub processes which are opportunity and idea exploration as well as planning where ideas are converted into a working plan. Meanwhile, execution consists of doing and communicating. Execution is the stage of planning implementation, while communicating is the stage where students are required to introduce their products or services to a wider community. In the practice, these three processes is manifested into five stages of learning which are conducted to achieve entrepreneurial competence.

Entrepreneurial Competences

EL is a method to develop individuals who possesses entrepreneurial competences (Gibb, 2002, 2006; 2011; Morris et al., 2013). Competence is described as one’s capacity (Winterton, 2009) and capability to accomplish a task in certain field (Danneels, 2002; Rasmussen, Mosey, & Wright, 2011). While capacity explains the attributes of one’s expertise, capability is related to how the expertise is utilized in accomplishing a task (Kakkonen, 2011). It is dynamic, developed by individuals by real experiences in accomplishing tasks (Chell, 2013), and multidimensional which includes behavioral,
cognitive, and functional dimensions (Boreham, 2006). Morris, Webb, Fu, Dan Singhal (2013) divides competences into two domains which are Behavior Domain (such as opportunity recognition) and attitudinal competences (such as self-efficacy and resilience).

Lans, Biemans, Mulder and V erstegen (2010) suggests that the entrepreneurial competences domains should consist of behavioral and cognitive aspects. Kakkonen (2011) explains that competence is a combination of personality and behavioral perspective which is manifested in the form of knowledge, skill, attitude, and personal qualities.

Parallel with the expectation of Ciputra Way Learning Cycle, this study recommends three competence domains which are the cognitive, the behavior and the attitude. From the list of Morris’ Entrepreneurial competences this study selected opportunity recognition and creativity and innovation as the representation of cognitive, networking as the representation of behavior domain, and resilience as the representation of attitude domain. Following is the brief explanation of four aspects of competences as parts of entrepreneurial learning outcomes.

Opportunity Recognition (OR)

Opportunity recognition (OR) is a momentum of alignment between market needs and the value offered by a creator. The alignment here is about the “fit” or “chance” which entails the three stages of process: (1) developing need perception; (2) discovering need-fulfilment resources; (3) creating a fit and suitable momentum (Ardichvili, Cardozo, & Ray, 2003). These stages of perception, discovery, and creation are influenced by sensitivity or alertness, prior or background knowledge (Ardichvili et al., 2003; Gaglio & Katz, 2011), and personal attribution such as creativity (Shane & Nicolaou, 2014) and image of self (Mitchell & Shepherd, 2010).

Creativity and Innovation

Creativity and innovation are crucial in entrepreneurship as both contribute in the process of generating novelty and values. Creativity itself correlates with ideas while innovation is related to novelty or values (Bledow, Frese, Anderson, Erez, & Farr, 2009). Prior study found that both are correlated in values creation (Baron & Tang, 2011; Ward, 2004).

Beghetto & Breslow (2013) classified creativity into three categories: (1) creativity which is related to individual personalities, (2) creativity as a cognitive expression, (3) creativity as the results of interaction process between individual potentials and his environment. This study will highlight particularly the second and third types of creativity. Creativity is habitual meaning it is a means of idea expression through behavior as a form of situational response. Habit is formed as it is reinforced by motivation to improvise and innovate (Glâveanu, 2012). Improvisation is a creative act to solve problems, then again innovation is a creative act based on the awareness to create “a novelty in response to problem” (p.86). With regards to that, novelty is the element which differentiates both. Nevertheless, intentionality and rationality are the common things found in both entities.

In entrepreneurship context, Morris et al (2013) defines creativity and innovation as capability to recognize opportunity which holds possibility to generate novelty and functionality by exploring the relations between different separated things. As it emphasizes on the ability to explore relations, creativity should be in-
Networking

Networking is an individual act to create and to maintain relationship with other stakeholder in order to gain expected benefits (Forret & Dougherty, 2001; Klerk, 2010). Networking can occur between a number of nodes among individuals, units, or organizations including ventures. Easley & Kleinberg, (2010) stated that there are three types of motivation to create networking, which are: (1) to explore insights to recognize opportunity; (2) to gain trust; (3) to gain benefit or incentive.

Granovetter (1973) groups social networking as two types of ties in networking including “strong tie” and “weak tie”. Strong tie is a type of relationship which is based on emotion and high trust, while “weak tie” is a relationship created by the needs to obtain insight, necessary information, and skills. Some of stakeholders who take parts in forming “strong tie” involves family and friends. Weak tie is formed as a bridge entailing the priory developed strong tie relations (Easley & Kleinberg, 2010; Granovetter, 1973).

Resilience

Resilience is an ability to adapt to achieve outcomes even though it requires efforts in facing any challenges and unexpected risks (Alvord & Grados, 2005; Masten & Tellegen, 2012). Studies about resilience posited two perspectives on antecedents, first, the emphasis on individual attribute and ability, while the second view is inclined to the process of adaptation with threatening or challenging conditions. Attribute and ability perspective believes in the process of identifying individual factors while the process perspective is more emphasizes the dynamic interaction between individuals and the emerging challenges (Olsson, Bond, Burns, Vella-Brodrick, & Sawyer, 2003; Pangallo, Zibarris, Lewis, & Flaxman, 2015).

In learning context, resilience is defined as the success of achieving learning outcomes despite the unsupportive environmental condition (Ricketts, Engelhard Jr., & Chang, 2015). Concurrently, resilience here refers to the conception of “daily resilience” or “buoyancy” which is the aptitude to adapt with difficult situations encountered in daily life, such as academic risks or possibility of failure either in achieving learning outcomes or tasks accomplishment (Martin, Ginns, Brackett, Malmberg, & Hall, 2013; Martin & Marsh, 2008). The difference between resilience and buoyancy is on the level of the risks. Resilience is conceived as having greater risk factors rather than buoyancy (Alvord & Grados, 2005).

Growth Orientation

Growth orientation is an openness towards challenges and orientation of capability development (Dweck & Leggett, 1988; Elliott & Dweck, 1988). Individuals with Growth Orientation is suggested to engage better in task accomplishments (Levy-Tossman, Kaplan, & Assor, 2007), to possess high self-efficacy (Komarraju & Nadler, 2013), to perceive that skills can be developed and is not static (Dweck, 2015; Yeager, Dweck, & Yeager, 2012). Elliot dan McGregor (2001) classified the development into three categories including development based on pre-determined task criterion (task approach), development based on indi-
individual’s previous achievement (intrapersonal approach), and development based on others’ achievement (normative).

Growth orientation is predicted to potentially affect the enhancement of Entrepreneurial Competences. In other words, Entrepreneurial Competences is expected to grow when individuals have the genuine willingness to direct their self-development to acquire better competences.

Assessment for Improvement

Assessment could be a stimulus for individuals to cultivate intrinsic motivation to accomplish the given tasks (Weurlander, Söderberg, Scheja, Hult, & Wernerson, 2012). Assessment for learning is also functioned as the feedback to achieve betterment in learning strategy (Brown, 2011) which may impact the students’ accountability (Brown & Hirschfeld, 2007, 2008). Clark (2012) differentiate assessment into assessment as the identification of gap between the temporary condition and the expected result (assessment as gap), and the assessment as reflection based on the existing proofs (assessment as learning). Both should be conducted continuously during the learning process therefore it is possible to identify the improvement and the necessary step to take.

It is important to synchronize the learning instruction and assessment, as well as to ensure the conduct of authentic assessment by creating the fidelity of the assessment situation compared to the real condition (Bastiaens & Kirschner, 2004). According to the same authors, there are five dimensions of Authentic Assessment: (1) task completion which requires integration of knowledge, skill, and attitude; (2) fidelity with real context in the professional world; (3) facilitation of collaboration and individual tasks; (4) product outcomes which represent the mastery of competence, and (5) standard and criterion which equates the real professional context.

The determined criteria also should be the reference for students to measure their own competence as it is capable to present the big picture of each individual’s uniqueness through the various authentic evidences it records (Lans et al., 2010). Criteria becomes an “end-in-view” (Pepin, 2012: 806) in which students can attain the reflection before deciding the next entrepreneurial act.

Entrepreneurial Performance

Entrepreneurial performance is often times associated with what is resulted by individuals, teams, or firms (Agbim, Oriare, & Zever, 2014; Hsu, Tan, Laosirihongthong, & Leong, 2011; Kollmann & Stöckmann, 2012; Zhou & Rosini, 2015). The outcome could be in the form of profit, incomes or the growth of the company (Casillas & Moreno, 2010), or a novel product or process (Kumar & Jagacinski, 2011). Moreover, Yusuf (2010) wrote that “growth, profitability and survival, for example, are some of the more popular measures of entrepreneurial outcomes that have been used” (p. 329).

Entrepreneurial Performance in business is inclined to the financial performance context. However this parameter has posed a problem when adapted into the context of entrepreneurship education where business process is only situated as the means to develop the entrepreneurial competence of the students. In regards to that concerns, in this context, the forming of Entrepreneurial Performance should be viewed with a multiperspective approach. Accordingly, this present study uses two approaches of entrepreneurial performance which is based on
Achievement Goal Theory explains that Performance Goal is related to the efforts given to demonstrate competence (A. J. Elliot, Murayama, & Pekrun, 2011) as well as the social comparison and recognition (Darnon, Dompnier, Gilliéron, & Butera, 2010). Goal becomes an important element which determines an individual’s orientation towards certain objectives. Mastery orientation is focused on the efforts to enhance competence while performance orientation is related to the willingness to achieve certain results or acknowledgment from others.

Entrepreneurial performance in this research refers to the outcomes of students’ entrepreneurial projects which are facilitated to be exhibited therefore it would gain recognition from others. The performance approach is expected to be fairly implemented to the students learning process of becoming more entrepreneurial and subsequently will result in the performance which suits their context.

Entrepreneurial Competences

Competence describes the explanation one’s capacity (Winterton, 2009) and capability to accomplish a task in certain field (Danneels, 2002; Rasmussen et al., 2011). While capacity explains the attributes of one’s expertise, capability is related to how the expertise is utilized in accomplishing a task.

Competence is dynamic, developed by individuals by real experiences in accomplishing tasks (Chell, 2013), and it is multidimensional which includes behavioral, cognitive, and functional dimensions (Boreham, 2006). Morris, Webb, Fu, dan Singhal (2013) divides competences into two domains which are Behavior Domain (such as opportunity recognition) and attitudinal competences (such as self-efficacy and resilience). Lans, Biemans, Mulder and Verstegen (2010) suggests that behavioral aspect and cognitive aspect as the domains of entrepreneurial competences. Kakkonen (2011) explains that competence is a combination of personality and behavioral perspective which is manifested in the form of knowledge, skill, attitude, and personal qualities.

Parallel with the expectation of Ciputra Way Learning Cycle, this study recommends three competence domains. First, the domain of knowledge and mindset which manifest the cognitive. The next domain is behavior which manifests skills. Lastly, the domain of attitude. Entrepreneurial competence domains as suggested by Morris were selected to represent the aforementioned three domains, including opportunity recognition also creativity and innovation as representation of cognitive, networking as representation of behavior domain, and Resilience as representation of attitude domain.

Method

Population involved in this research are secondary and high school students from a number of schools under The Foundation of Ciputra Entrepreneurship. The inclusive criteria of the chosen schools are: 1) Cooperate with the Ciputra Foundation; 2) Teachers in the referred schools has acquired training by The Ciputra Foundation; 3) The school consistently implement teaching using the K-12 model, Ciputra Way. The sample in this study are the final year students from each school. The final year student is selected as they have possessed learning experiences and adequate perception toward entrepreneurship during their three years of study which possibly will be continued in
high school meaning those students will also have the option to continue their current project. Sampling method used in this study was purposive sampling with the number of 355 participants. Table 1 illustrates the detail of sampling figure in each school.

Table 1 Sample Distribution

<table>
<thead>
<tr>
<th>School</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sekolah Ciputra, Surabaya, East Java</td>
<td>67</td>
</tr>
<tr>
<td>Sekolah Citra Berkat Bukit Palma, Surabaya, East Java</td>
<td>61</td>
</tr>
<tr>
<td>Sekolah Citra Berkat Taman Dayu, East Java</td>
<td>11</td>
</tr>
<tr>
<td>Sekolah Citra Kasih Jakarta</td>
<td>86</td>
</tr>
<tr>
<td>Sekolah Citra Berkat, Tangerang, West Java</td>
<td>74</td>
</tr>
<tr>
<td>Sekolah Tunas Daud Denpasar, Bali</td>
<td>56</td>
</tr>
<tr>
<td>Total</td>
<td>355</td>
</tr>
</tbody>
</table>

Growth Orientation was measured using the adapted questionnaire from Midgley, et al. (2000), while Assessment was measured by adapting the questionnaire from Brown, Irving, Peterson and Hirschfeld (2009). Each measurement provides five-point range of responses between 1 (totally disagree) to 5 (totally agree). Whereas Entrepreneurial Competence was measured by the teachers’ assessment which was determined by competence achievement and entrepreneurial project performance as attained by the students’ final project marks. Both assessment were conducted according to the designated rubric which was created to help teachers in making the grading decision. The final score can be given in the marking was classified into five-point range from 1 to 5.

All the questionnaires were adapted and adjusted with the K-12 learning model, Ciputra Way, and translated into Bahasa Indonesia. The adapted questionnaires also have been evaluated by using experts judgement (school counselor, education psychologist, and linguist) as well as consulted to the students themselves in regards to the language and consideration of the adaptation. Afterwards, validity test was conducted using confirmatory factor analysis, followed by the reliability testing using the Alpha Cronbach analysis with 30 persons of the sample. Final analysis conducted was the hypothesis testing by using the Structural Equation Modeling (SEM).

To prove the reliability of each measurement, Alpha Cronbach Analysis was conducted. Furthermore, Confirmatory Factor Analysis was also conducted to attain the validity of each instrument. Table 2 depicts the results of reliability testing.

Table 2 Reliability Analysis

<table>
<thead>
<tr>
<th>Variable</th>
<th>Number of</th>
<th>Alpha</th>
<th>CITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth Orientation</td>
<td>3</td>
<td>0,778</td>
<td>0,351-0,441</td>
</tr>
<tr>
<td>Assessment for Improvement</td>
<td>3</td>
<td>0,817</td>
<td>0,643-0,697</td>
</tr>
</tbody>
</table>

According to Table 2, it can be concluded that the measurement of Growth Orientation is both reliable and valid as it is evident that the Alpha Cronbach of the questionnaire surpasses the cut-off point of 0,7 with all CITC value of the items higher than 0.3. Likewise, the instrument of Assessment of Improvement also shows good reliability with the number of Alpha Cronbach as high as 0.817 ($\alpha \geq 0.7$), with CITC value of all item exceeds the cut-off point of 0.3.

Table 3 Confirmatory Factor Analysis

<table>
<thead>
<tr>
<th>Variable</th>
<th>Items</th>
<th>Factor Loading</th>
<th>Conclusion</th>
<th>CR</th>
<th>AVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth Orientation</td>
<td>GO1</td>
<td>0,724</td>
<td>Valid</td>
<td>0,79</td>
<td>0,55</td>
</tr>
<tr>
<td></td>
<td>GO2</td>
<td>0,816</td>
<td>Valid</td>
<td>0,79</td>
<td>0,55</td>
</tr>
<tr>
<td></td>
<td>GO3</td>
<td>0,663</td>
<td>Valid</td>
<td>0,79</td>
<td>0,55</td>
</tr>
<tr>
<td>Assessment for Improvement</td>
<td>Ass_Imp1</td>
<td>0,801</td>
<td>Valid</td>
<td>0,82</td>
<td>0,60</td>
</tr>
<tr>
<td></td>
<td>Ass_Imp2</td>
<td>0,747</td>
<td>Valid</td>
<td>0,82</td>
<td>0,60</td>
</tr>
<tr>
<td></td>
<td>Ass_Imp3</td>
<td>0,768</td>
<td>Valid</td>
<td>0,82</td>
<td>0,60</td>
</tr>
</tbody>
</table>
Following the reliability testing is Confirmatory Factor Analysis (CFA). Table 3 provides the results of CFA of each variable.

According to the CFA, results show that all the items possess factor loading value higher than 0.4, ranging from 0.6634 to 0.816. Therefore, it can be concluded that all of the items are valid. The CR value obtained were 0.79 and 0.82 with the values of AVE of 0.55 and 0.60.

Results

Entrepreneurial project performance itself positively influences entrepreneurial competence as high as 78.2%. Besides, Growth Orientation and Assessment also positively affects Entrepreneurial Project Performance as much as 7.5% and 8.1% respectively. Consequently, it can be concluded that entrepreneurial competence is more influenced by entrepreneurial project performance. The model testing shows goodness of fit with $\chi^2$ as high as 66.694; with the p-value of 0.346; RMSEA as high as 0.013; GFI as high as 0.976; AGFI value of 0.951; NFI value of 0.976; TLI value of 0.997; and CFI value of 0.999 ($p$-value $\geq 0.05$; RMSEA $\leq 0.05$; GFI $\geq 0.90$; AGFI $\geq 0.90$; NFI $\geq 0.90$; TLI $\geq 0.90$; CFI $\geq 0.97$).

Discussion

As predicted, Entrepreneurial Project Performance as encouraged through Ciputra Way Learning Cycle Model as the method, influence the final outcomes of learning which Entrepreneurial Competence is. This finding contributes in enriching the various process carried out in entrepreneurship education. In the previous studies, entrepreneurship education was found impacting the development of cognition, such as creativity (Athayde, 2012), attitude, self-efficacy, proactiveness, and risk taking (Sanchez, 2013). It is also discovered as an impactful factor towards personal and social behaviours of students such as civic skill and cultural awareness (Paço, Ferreira, Raposo, Rodrigues, & Dinis, 2011). Through this present study, Ciputra-Way Learning Cycle Model is proven contributing to the three dimensions of competence which are cognitive (opportunity recognition as well as creativity and innovation), behavioral (networking), and attitudinal dimensions (resilience).

Growth Orientation which is adapted from the concept of Mastery Orientation also shows possibility to be accommodated in the process of entrepreneurial learning. Growth Orientation prevents students from learning which merely aimed at grade attainment, in contrast, it encourages competition and competitiveness. The orientation has made learning become a process of constructing a learning culture (Dweck, 2015) and strengthen resilience in entrepreneurial learning (Yeager et al., 2012). Growth Orientation is manifested into the final outcome in the form of designated competence objectives which are aimed to facilitate development of students’ positive efficacy towards their entrepreneurial projects (Blackwell &
Furthermore, this study also confirms that Assessment for Improvement possess an essential role towards achievement. Through assessment, students acquire feedback regarding their learning improvement (Solomonidou & Michaelides, 2017). Assessment becomes a process of information seeking where students can obtain the understanding of their temporary condition and the development target they should achieve further. With the role of assessment as feedback, Ciputra-Way Learning Cycle Model promises potential to construct the self-regulated behavior also develop responsibility as well as the betterment of students learning outcome (Brown, 2011; Brown & Hirschfeld, 2007). Criterion-based assessment as implement is perceived to help student in developing their learning process experience. Despite the fact that this research only covered the discourse of Assessment for Improvement and has not included the aspect of accountability, however the findings suggests possibility of criterion-based formative assessment model. Another thing to put into account is assessment should not be a strict control system which constrains the students autonomy (Z. Wang & Brown, 2014).

Suggestions

This study considers entrepreneurial competences as unidimension, subsequently, it still is unable to reveal the role of possible antecedents of each competence. Future research is suggested to include and test the antecedents of each type of entrepreneurial competences as it is conceived will present flexibility in analyzing different sub-dimension of competence.

Another limitation of this study is that it solely includes growth orientation without considering performance orientation or multiple goal orientation (Pintrich et al., 2000). In order to proceed an entrepreneurial learning particularly which utilizes project as means of learning might need these two types of orientation. Multiple goal orientation is expected to give students the sense of target emphasis in each stage of learning cycle. Whilst, performance orientation might be related with the success of entrepreneurial project performance.

Furthermore, future research should better consider task perceived values as learners subjective emotion is expected as taking parts in the process of experiential learning. Another variable to put into account is assessment strategy as some strategies such as self-assessment and peer-assessment possibly gives a good reflection of the development of self-regulated learning among students.

References


Glâveanu, V.P. 2012. Habitual Creativity: Revising Habit, Reconceptualizing Creativity.
Grannovetter, M.S. 1973. The Strength of Weak Ties. The American Journal of Sociology, 78(6), 1360–1380.


