# COMMUNITY-BASED ENTREPRENEURSHIP: A COMMUNITY DEVELOPMENT MODEL TO BOOST ENTREPRENEURIAL COMMITMENT IN RURAL MICRO ENTERPRISES

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Abstract. Micro enterprises (MEs) have been proven to be significant contributors to the national economy, particularly for marginal communities. However, only a few programs are aimed to encourage ME improvement, especially in rural areas. The community-based entrepreneurship (CBE) program led by higher education institutions has been recognized as an effective instrument to accelerate capacity building for marginal communities. This research aims to determine the effectiveness of this program in boosting entrepreneurial commitment of rural MEs to help them develop their business. Applying the theory of planned behavior (TPB) framework, this research applies a direct survey to respondents from rural MEs. Then to analyze both data and output, this study applies PLS-SEM tool with SmartPLS software. Results reveal that social factors (social pressure and environmental influence) do not incline rural ME entrepreneurs to develop their business. Attitude factors (entrepreneurial benefit and willingness to take a risk) become the most dominant variables, and consistently have an impact on rural ME entrepreneurs in developing their business. To implement the business development of rural ME, perceived behavioral control becomes a main determinant. Demographic profiles (age, gender, and eduction) is also heavily as influential factors.

**Keywords:** community-based entrepreneurship, entrepreneurial commitment, theory of planned behavior, micro enterprises

**Abstrak.** Usaha Mikro (UM) menjadi kontributor yang signifikan terhadap pembangunan ekonomi nasional, khususnya pada komunitas marginal. Namun, sangat sedikit program yang ditujukan untuk mendorong perbaikan UM, terutama di daerah pedesaan. Program Community-based Entrepreneurship (CBE) yang diinisiasi oleh institusi pendidikan tinggi telah diakui sebagai media yang efektif untuk peningkatan kapasitas komunitas marjinal. Penelitian ini bertujuan untuk mengetahui efektivitas program CBE ini dalam meningkatkan komitmen UM di pedesaan dalam membantu mengembangkan bisnis mereka. Dengan menerapkan kerangka Theory of Planned Behavior (TPB), penelitian ini menggunakan survei yang ditujukan langsung kepada responden dari UM pedesaan. Kemudian, untuk menganalisis data dan output, penelitian ini mempergunakan PLS-SEM dengan aplikasi SmartPLS. Hasil penelitian ini mengungkapkan bahwa faktor sosial (tekanan sosial dan pengaruh lingkungan) tidak mendorong pengusaha UM pedesaan untuk mengembangkan bisnis mereka. Faktor sikap (manfaat kewirausahaan dan kemauan untuk mengambil risiko) menjadi variabel yang paling dominan dan secara konsisten berdampak pada wirausaha pedesaan UM dalam mengembangkan bisnis mereka. Untuk mewujudkan pengembangan bisnis UM,

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kontrol perilaku juga dirasakan menjadi faktor penentu. Profil demografi seperti usia, jenis kelamin, dan pendidikan juga turut mempengaruhi.

**Kata Kunci:** community-based entrepreneurship, komitmen berwirausaha, theory of planned behavior, usaha mikro

### INTRODUCTION

The gowth of micro enterprises (MEs) serves as one solution to solve socioeconomic problems in many countries. Indeed, several studies report that MEs' contribution to economic growth is significant (Gunasekaran et al., 2011; Anton et al., 2015). This finding is supported by Ayyagari et al., (2011), who study whether MEs in various countries are able to absorb additional labor. According to Anton et al.. (2015), the labor contribution of micro businesses is more than 99 million workers, their contribution to gross domestic product (GDP) is 35.81%, and their total investment is more than Rp. 175 trillion.

The main challenge for MEs is related to their sustainability in the context of their contribution to the national economy (Tambunan, 2008; Sallem et al., 2017). Rostek (2012) explains the importance of competitiveness in environmental changes and increasingly stringent in business competition. Competition becomes the main focus of businesses to protect themselves from environmental change (Blackburn and Jarvis, 2010; Karaev et al., 2007). Specifically, the problem for MEs in Indonesia is how they maintain their business continuity (Anton et al., 2015).

In fact, many MEs have less basic competencies than larger businesses. Therefore, they are less competitive in the market (Addis, 2003). Basic skills are fundamental element of competitiveness related to the personal development, job skills, and information skills that are evolving today (Suci, 2009). The importance of education in enhancing competitiveness has become increasingly essential. People who have better education or skills also having superior competitiveness (Moser, 1999; Bynner and Parsons, 1997).

Community development programs have been advanced as a solution to solve poverty problems, and they have proven to reduce poverty (Bradshaw, 2007). However, particularly in rural areas, the problems of the poor and marginalized, both individually and collectively, are still need to be addressed (Yunus, 2008). Cali and Menon (2012) deliver an attention to the growing role of the rural economy in the national economy. Even so, in practice, a community development program in rural areas will encounter obstacles, especially based on the differing characteristics of the poor and marginalized. However, entrepreneurship can occur even in a socially and culturally diverse environment (Dana, 1995).

Higher education institutions seek to contribute to community development through community-based entrepreneurship (CBE) education programs. Favolle et al., (2006) state that education can stimulate potential entrepreneurs' intention to develop their business. The study is reinforced by several other studies, including Tkachev and Kolvereid (1999), Peterman and Kennedy (2003), and Soutaris et al., (2007). Similar studies have been conducted in Indonesia and also show the important role of education in encouraging business (Purusottama and Soehadi, 2016). Education increases the

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productivity and creativity of the community and encourages entrepreneuship advancement (Breton, 2013). The CBE programs offered by Prasetiya Mulya University are incorporated directly into the core curriculum as the school acknowledges the importance of community development programs. Prasetiya Mulya University has an existing entrepreneurial base due to its expertise and experience (resources-based) to lead this program. Rural areas are chosen, particurally areas that have ME communities, because of the high economic disparities between rural areas and urban areas (BPS, 2016).

Applying the theory of planned behavior (TPB), this research aims to test the effectiveness of the community-based entrepreneurship model toward MEs' commitment to develop their businesses in rural areas. In this study, the researchers measure MEs' individual profile to provide a more specific picture of their commitment to develop their business. The main research question is as follows:

RQ. Do community-based entrepreneurship education programs encourage MEs' commitment to develop their business?

### LITERATURE REVIEW

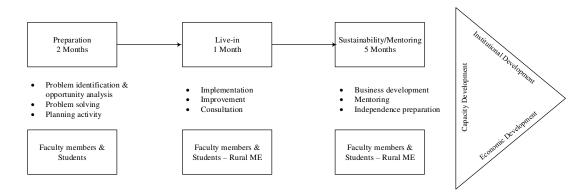
Community-based Entrepreneurship in Higher Education Institutions. Community development in higher education, better known as the Student Study-Service (or in Bahasa, *Kuliah Kerja Nyata* (KKN)), is a form of higher education contribution to the community using a cross-scientific and sectoral approach (UGM, 2015). This program is required by the Ministry of Higher Education and Research and also regulated in article 20 of the Law of the Republic of Indonesia No. 20 2003 on the National Education System. The law states that higher education institutions are obliged to organize a KKN; doing so has become one of higher education's threefold responsibilities, the others being lecturing and doing research (Krisnawati, 2009), and the KKN has become a sub-system of higher education in Indonesia (Hardjasoemantri, 2007).

The KKN program implemented by each university varies depending on the related disciplines and the needs of the community in the area targeted for implementation of KKN, predominantly in rural areas (Effendi, 2018). The Prasetiya Mulya University's KKN program is based on the CBE model (Figure 1). This program aims to provide support especially to MEs in rural areas to help them develop their business on the basis of entrepreneurship education. This CBE program pursues the development of three dimensions: institutional, economic, and capacity. The CBE is conducted by an individual or by a group with Prasetiya Mulya University staff serving as facilitators. The program has been recognized as an instrument tool for upgrading capacity building in the marginalised groups (Rao, 2003).

The CBE concept of collaboration between rural MEs and higher education institutions is intended to identify and resolve any shortcomings in rural MEs. In practice, students are asked to spend time at a rural ME so as to have a sense of the business. Through the program, students able deepen the ME's characteristics and understand the ME's environemnt. Students are also expected to have an essential lesson in the form of social culture.

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Technically, three stages are involved in community development programs: preparation, live-in, and mentoring. The preparation stage held before the student enters the live-in stage; the main activity of this stage is to identify any problems encountered by rural ME and creating problem solving analysis. Thereafter, students enter the live-in period to implement the recommendation plans. Finally, a period of assistance is offered to maintain the sustainability of the business implementation.



**Figure 1.** Community-based Entrepreneurship Framework Source: Prasetiya Mulya University Community-based Entrepreneurship Model

**Theory of Planned Behavior.** Initially, TPB was established to observe human and organizational behaviors. However, on its advancement, the theory functions to explain and predict the impacts of motivation outside the will of an individual. This theory can clarify almost all human behaviors affected by attitudes, subjective norms, and behavior control factors.

TPB, as shown in Figure 2, assumes that almost all human actions have purpose, are controlled, and are planned and affect the next action (Ajzen and Fishbein, 2000). Based on this assumption, TPB becomes relevant when used in measuring the behaviors of entrepreneur.

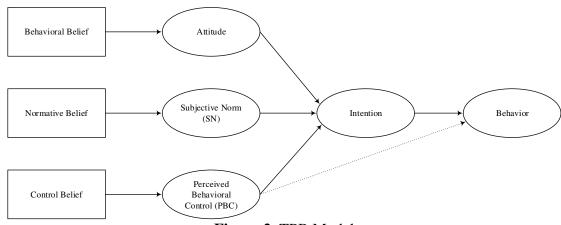


Figure 2. TPB Model

Source: Ajzen and Fishbein, 2000

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According to Ajzen (2012), TPB argues that human behaviors are affected by three types of beliefs. First, the behavioral belief is the belief that consequences of actions exist. Second, the normative belief is the belief in hope coming from the surrounding environment. Last is the control belief, which is the belief that factors that encourage and discourage behaviors exist.

TPB is widely used to support multidisciplinary research, especially in human behavior. For example, several studies using TPB have examined consumer behavior in consuming products and services (Ajzen, 2015; Vabo and Hansen, 2016). TPB is also used frequently to examine purchasing behavior associated with certain products (Haro, 2015; Alam and Sayuti, 2011). Yuzhanin and Fisher (2016) and Wang and Fu (2015) use TPB to evaluate its effectiveness in predicting visitor intentions in selecting a tourist destination. Buaphiban and Truong (2017) apply TPB in predicting prospective passengers' selection of a low-cost carrier (LCC) in Southeast Asia.

Relevance of Entrepreneurship for TPB. TPB can be used across disciplines. Initially, development of the theory only addressed individual behavior from a psychological point of view. Today, this theory is used in all areas. For illustration, Krueger and Carsrud (1993) argue that the creation of a business is a planned action. The linkage between the TPB component and the entrepreneurial intention has attracted many researchers (Kolvereid, 1996; Tkachev and Kolvereid, 1999; Solesvik *et al.*, 2012; Souitaris *et al.*, 2007), however those findings are not conclusive. In addition, some scholars have discovered a direct and strong connection between the three TPB factors and entrepreneurial intentions (Kolvereid, 1996; Tkachev and Kolvereid, 1999; Souitaris *et al.*, 2007). Also, the theory plays an essential part in the decision making about whether to begin or grow a business (Bird, 1988; Katz and Gartner, 1988).

In terms of entrepreneurship education, many studies suggest that entrepreneurship education plays a critical part in stimulating entrepreneurship. Tkachev and Kolvereid (1999), Peterman and Kennedy (2003), Fayolle *et al.*, (2006), and Soutaris *et al.*, (2007) also report that entrepreneurship education shows a major role in increasing the human intention to do business. In addition, the entrepreneurship learning model is the main driving factor of entrepreneurial motivation, which society needs to increase entrepreneurship capacity (Oganisjana *et al.*, 2014). Furthermore, entrepreneurship education positively affects future behavior and desire among its students.

Entrepreneurial activity and decisions are strongly influenced by the demographic profile of the community. Lévesque and Minniti (2011) summarize the important role of demographic information, especially age, in encouraging entrepreneurial activity and economic growth. The results of the study delineate the important relationship among demographic structure, aggregate entrepreneurship, and growth. Lamotte and Colovic (2013) emphasize the contribution of young people toward nascent entrepreneurship, while stating that the role of older people is often to suppress the existence of entrepreneurship. From the educational side, individuals with higher education can increase business opportunities more effectively than people with less education (Minitti *et al.*, 2005). Turker and Selcuk (2009) suggest that a sufficient level of education can stimulate entrepreneurship desire. From a gender perspective, many studies address the importance of gender in entrepreneurial activities. Wilson *et* 

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al., (2007) discover that self-efficacy in successful entrepreneurship of women is higher than men. Humbert (2010) examines the potential motivational factors between men and women where gender differences influence entrepreneurial activities.

# **Hypothesis**

CBE Education Program. Attitude, according to Ajzen (2012), is a person's internal factors learned to receive positive or negative responses from a stimulant. The responses are determined by the person's belief regarding the consequences of his/her actions. Attitudes toward entrepreneurial behavior refer to the contrast between the concept of individual intention to become self-employed and the intention to perform an entrepreneurial profession (Souitaris *et al.*, 2007). In addition, Fayolle *et al.*, (2006) explains that if a person considers a certain activity in business development as beneficial for him or her, the person will give a positive response to that certain activity and vice versa. Thus, the first hypothesis is as follows:

Ha1. CBE education program contribute significant and positive relationship exists between attitude and intention to develop the business.

Subjective norm refers to apparent social strain to perform monitored action (Solesvik *et al.*, 2012). The opinions of noteworthy others (i.e., relatives, close friends, other key person) about whether an individual should trail a profession as an entrepreneur seem to influence the arrangement of entrepreneurial activity (Ajzen, 2012; Solesvik *et al.*, 2012; Liñan and Chen, 2006). Such opinion can change the view and provide motivation for the individual. Thus, the second hypothesis is as follows:

Ha2. CBE education program contribute significant and positive relationship exists between subjective norm and intention to develop the business.

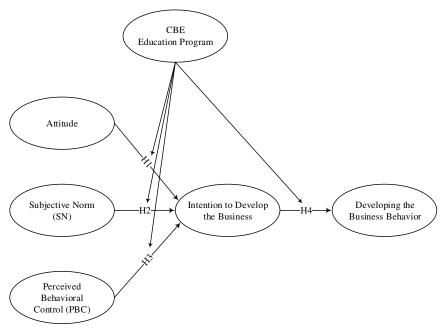
Perceived behavioral control (PBC) is a sense of easiness or difficulty in performing certain behaviors; it reflects a past experience and anticipates future challenges (Ajzen and Fishbein, 2000). PBC reveals the degree to which an individual controls beliefs linked to entrepreneurial activity (Solesvik *et al.*, 2012). In an entrepreneurship context, this behavior is related to the availability of support and resources to start or develop a business (Tung, 2011; Liñan and Chen, 2006). Therefore, we offer the third hypothesis:

Ha3. CBE education program contribute significant and positive relationship exists between perceived behavior control and intention to develop the business.

Ajzen (2012) argues that the relationship of intention and behavior is influenced by many factors so that a potential difference between intention and behavior can exist. More precisely, the relationship of intent toward a behavior is influenced by PBC in which PBC is a function of control behavior regarding the factors that affect the action to be taken. In business, the difficulties and ease of developing a business drive an intention to be realized into behavior. Thus, the following hypothesis is offered:

Ha4. CBE education program contribute significant and positive relationship exists between intention and behavior to develop the business.

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**Figure 3.** Diagram of the Research Hypotheses

**Demographic Profile**. Several previous studies have revealed that demographic background contributes an essential part in entrepreneurial activity. Afrin *et al.*, (2010) examine the role of women in business development and financial management of their business. Bönte *et al.*, (2007) state that this demographic factor is extremely important in the advance of entrepreneurship. The role of women, who in the past mostly played a role as housewives, turns out to have a very strong influence in entrepreneurial activity. Minitti *et al.*, (2005), in terms of educational level, argue the importance of higher levels of education, stating that such education will encourage and influence individuals to improve their business. Broader knowledge can increase the desire and motivation of entrepreneurs to develop their business. Last, the young people in entrepreneurship have a role to perform in positively influencing nascent entrepreneurship (Lamotte and Colovic, 2013).

## **METHOD**

Sample and Design. The quantitative research is embedded in the Prasetiya Mulya University CBE education program covering three years from 2014-2016 and using primary data collection. The target respondents were rural ME entrepreneurs who were members of the Prasetiya Mulya University CBE education program located in Cianjur regency, West Java, Indonesia. We distributed a total of 100 questionnaires but received only 87 questionnaires that were usable. Thirteen forms were disqualified from the sample due to unfinished answers.

**Measurement.** To measure attitudes toward behavior, five items were adopted from Solesvik *et al.*, (2012) and Liñan and Chen (2006). Rural ME entrepreneurs were requested to rate statements about the extent to which business development is

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perceived as desirable and attractive. Examples of statements used are: "I am sure that if I expand my business I will benefit" and "I want to expand my business." Subjective norms were measured with three items adopted from Solesvik et al., (2012), Souitaris et al., (2007), and Liñan and Chen (2006). For every statement, the rural ME actors reported the extent to which people who were important to them (i.e., relatives, close friends, key person) inspire their decision to develop the business. Examples of statements used are: "I am influenced by others in deciding about developing my business" and "I always need the opinions of others to know the right steps when developing my business."

PBC was measured using four items adopted from Solesvik *et al.*, (2012), Souitaris *et al.*, (2007), and Liñan and Chen (2006). For this construction, the items reflect the convenience that rural ME entrepreneurs perceive to develop their business. Examples of statements used are: "I am the one who fully decides whether I will develop the business or not" and "I have full control in developing my business." The variables of intention and behavior each use six items and five items in sequence adopted from Ajzen (2006). In this item, the statement used focuses on the desire and behavior of the ME entrepreneur in developing the business. Examples of statements used are: "I have strong determination to start developing a business" and "I can see progress in my business."

All the questions used a 5-point Likert scale in which 1 indicated "strongly disagree," 2 indicated "disagree," 3 indicated "neutral," 4 indicated "agree," and 5 indicated "strongly agree." Regression analysis was used to investigate the data. This study used structural equation modeling-partial least squares (SEM-PLS), which is part of the statistical model that defines the relationship among multiple variables (Hair *et al.*, 2010). This equation uses the interrelationships between constructs involved in the analysis. This research uses SmartPLS to support the research because it has a limited number of samples. This application is highly recommended when researchers have a limited number of samples and composite model (Wong, 2013).

**Table 1.** Demographic Background of the Respondents

	Frequency	Percent	Cumulative Percent
<20 tahun	4	4.6	4.6
20-40 tahun	37	42.5	47.1
>40 tahun	46	52.9	100.0
Worker	23	26.4	26.4
Entrepreneur	62	71.3	97.7
Both	2	2.3	100.0
Elementary	32	36.8	36.8
Junior High School	25	28.7	65.5
High School	21	24.1	89.7
> Bachelor Degree	7	8.0	97.7
Uneducated	2	2.3	100.0
	20-40 tahun >40 tahun Worker Entrepreneur Both Elementary Junior High School High School > Bachelor Degree	<20 tahun	<20 tahun

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**Table 1.1** (Lanjutan) Demographic Background of the Respondents

		Frequency	Percent	Cumulative Percent
Gender	Male	34	39.1	39.1
	Female	53	60.9	100.0
Marital Status	Married	81	93.1	93.1
	Single	6	6.9	100.0

#### **Results**

**Descriptive Statistic.** The data distribution of the questionnaire indicates the difference of each attribute as shown in Table 2. In some attributes the spread of data is narrowed (Intention, Attitude, and Behavior) as indicated by a relatively low standard deviation value compared to the other two attributes (Sn and Pbc). The greater the value of the standard deviation, the greater the average distance of each unit of data against the mean (Ho, 2006). It marks the spread of data and the tendency of each data to be different from one to another. The deviation standard values of attributes respectively, Intention (0.5609), Attitude (0.59499), Behavior (0.61986), PBC (0.75774), and SN (0.91413).

**Table 2.** Descriptive Statistics of the Questionnaire Results

	Ŧ , ,	1	2	3	4	5		G. I
Attribute	Latent Variable	strongly disagree	disagree	neutral	Agree	strongly agree	Mean	Std. Deviation
Attitude	Att_1	0	0	0	44	43	4.4943	.50287
	Att_2	0	10	10	53	14	3.8161	.84260
	Att_3	0	3	3	66	15	4.0690	.58654
	Att_4	0	0	0	37	50	4.5747	.49725
	Att_5	0	0	2	43	42	4.4598	.54569
Subjective	Sn_1	18	42	8	15	4	2.3678	1.13214
Norm	Sn_2	0	11	8	46	22	3.9080	.92299
	Sn_3	0	3	2	47	35	4.3103	.68727
Perceived	Pbc_1	0	8	13	55	11	3.7931	.77965
Behavioral	Pbc_2	0	7	2	56	22	4.0690	.77449
Control	Pbc_3	0	2	3	57	25	4.2069	.61262
	Pbc_4	0	15	9	56	7	3.6322	.86421
Intention	Int_1	0	0	0	36	51	4.5862	.49537
	Int_2	0	1	0	36	50	4.5517	.56566
	Int_3	0	3	1	57	26	4.2184	.63658
	Int_4	0	0	4	42	41	4.4253	.58334
	Int_5	0	0	2	44	41	4.4483	.54471
	Int_6	0	0	2	47	38	4.4138	.54028
Behavior	Bhv_1	0	0	1	49	37	4.4138	.51831
	Bhv_2	0	0	16	60	11	3.9425	.55733
	Bhv_3	1	14	19	47	6	3.4943	.88756
	Bhv_4	0	1	4	55	27	4.2414	.58995
	Bhv_5	0	0	3	24	60	4.6552	.54618

**Factor Analysis Testing.** The factor analysis revealed that certain items variables had to be removed because they had a loading factor value <0.5 (i.e., Sn\_3 (0.388), Pbc\_4

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(0.314), and Bhv\_1 (0.307)). The general standard used in factor analysis is that a weight factor of 0.50 or greater is considered to have strong validation to explain latent constructs (Hair *et al.*, 2010). Other references suggest that 0.4 is considered feasible (Sharma, 1996). Therefore, if the loading factor appeared under some references, then the item was removed.

Factor analysis after elimination, as exhibited in Table 3, shows that with the Kaiser-Meyer-Olkin (KMO) indicator all variables meet the data adequacy standard. The data adequacy standard has a value > 0.5 with a sample count of 50 to 300 (Field, 2005). Furthermore, the research shows a relation between multivariate variables with a significance value of 0.000. The value meets the specified standard for values less than .012. Specifically, the KMO value of the SN variable is 0.5, which is considered inconsistent with the data adequacy standard. However, according to Child (2006), the value of 0.5 is still feasible.

**Table 3.** Factor Analysis Between Variables

Variable	Symbol	Loading	KMO
		factor	
Attitude	Att_1	.648	0.599
	Att_2	.557	
	Att_3	.584	
	Att_4	.590	
	Att_5	.517	
Subjective Norm	Sn_1	.500	0.500
	Sn_2	.500	
Perceived Behavioral	Pbc_1	.746	0.557
Control	Pbc _2	.539	
	Pbc _3	.540	
Intention	Int_1	.739	0.726
	Int _2	.578	
	Int _3	.753	
	Int _4	.687	
	Int _5	.790	
	Int _6	.736	
Behavior	Bhv_2	.672	0.691
	Bhv _3	.647	
	Bhv _4	.738	
	Bhv _5	.759	

**Hypothesis Testing.** For purposes of this study, t-statistics using 5% (1.96) and 1% (2.576) are required as a measurement tool to determine relationships among variables (Ho, 2006). The result shows that the attitude variable tends to have a strong influence on its endogenous variable (intention) with a value of 6.567. The number meets the criteria specified for this research. Similar result is also found in perceived behavioral control variables with a value of 3.087. The intention variable has a significant relationship with its endogenous variable (behavior) with a value of 9.976. Conversely, subjective norm becomes the variable that does not affect its endogenous variable

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(intention). Thus, the subjective norm does not meet the required standard of significance with a value of only 1.622.

The results of hypothesis testing provide more details about the relationship between variables, as shown in Table 4. Another measurement tool that can be used to explain the relationship between variables is the p-values criteria. The four relationship variables in the test results indicate that Ha1, Ha3, and Ha4 are supported. Ha1 is also supported and has a fairly high coefficient value of 0.485 (O). Ha3 appears dominant, with a coefficient higher than any other variable, 0.598 (O). Although Ha4 has a significant relationship, its p-values are in the range 0.05 < x < 0.001 as the lowest value compared to other variables. The subsequent impact from the lowest value of significance is a lower coefficient value when compared with other variables also having a significant relationship. The third situation of the hypotheses (Ha1, Ha3, Ha4) is not followed by Ha2, which describes the relationship between subjective norm and intention. Ha2 does not meet the p-values, either 0.05 or 0.001.

**Table 4.** Analysis of PLS-SEM Outcome – Path Coefficient

Hypothesis Testing	Relationship	Coefficient Sample (O)	Coefficient Sample (M)	t-statistics (IO/STER RI)	p-values	Decision
Ha1	Att> Int.	0.485	0.486	6.567	0.000**	Supported
Ha2						Not
	SN> Int.	0.300	0.235	1.622	0.105	Supported
На3	Int> Bhv.	0.598	0.621	9.976	0.000**	Supported
Ha4	PBC> Int.	0.274	0.291	3.087	0.002*	Supported
Note: s	ignificant level *p	p<0.05,**p<0.0	001			

The total effect of the relationship between the exogenous variables and their endogenous variables in a one-way research model is illustrated in Table 5. The attitude variable toward behavior has a p-value of 0.000. Its value is in accordance with the requirements for significance level despite the decrease in the sample coefficient. The situation may indicate an indirect connection between attitudes and behavior. The intention variable moderates a positive connection between attitude and behavior. The PBC variable can also accommodate the criteria of significance level even though the p-values increase. This indicates a decrease in impact due to an indirect relationship between attitude and behavior. On the other hand, even though the subjective norms variable is consistent toward the behavior variable, it is not significant.

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Table 5. At	nalysis o	f PLS-SEM	Outcome -	Total Effect
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Relationship	Coefficient Sample (O)	Coefficient Sample (M)	t-statistics (IO/STERR I)	p-values	Decision
Att> Bhv.	0.290	0.057	5.056	0.000**	Supported
Att> Int.	0.485	0.074	6.567	0.000**	Supported
SN> Bhv.	0.180	0.117	1.538	0.125	Not Supported
SN> Int.	0.300	0.185	1.622	0.105	Not Supported
Int> Bhv.	0.598	0.060	9.976	0.000**	Supported
PBC> Bhv.	0.164	0.056	2.909	0.004*	Supported
PBC> Int.	0.274	0.089	3.087	0.002*	Supported
Note: significan	nt level *p<0.05,*	**p<0.001			

**Demographic Analysis.** Demographic study using age criteria produces distinctive findings as shown in Table 6. Consistently, the CBE program has a strong and positive effect on the relationship between intention towards behavior and does not deliver effect on the relationship between subjective norm toward intention in developing their business. Meanwhile, on the relationship between other variables there are some differences. The relationship between PBC toward intention at age <40 has a strong and positive relationship. In the opposite, age  $\ge40$  does not have a strong relationship. In other case, the relationship between attitude toward intention, ME at age  $\ge40$  have a strong relationship. In the meantime, at age of <40 does not have a significant relationship. In sum, the findings inform the CBE program's influence depends on the ME entrepreneurs age. The strongest relation is found in the relationship between intention toward behaviors, while others vary.

Coefficient		t-statistic		p-values		Age Decision		
Age	< 40	$\geq 40$	< 40	$\geq 40$	< 40	≥ <b>40</b>	< 40	<b>≥40</b>
PBC> Int.	0.298	0.366	2.750	1.055	0.006*	0.292	Supported	Not Supported
Int> Bhv.	0.582	0.640	6.585	8.821	0.000**	0.000**	Supported	Supported
SN> Int.	0.474	0.242	1.051	1.588	0.294	0.113	Not Supported	Not Supported
Att> Int.	0.290	0.527	2.567	3.800	0.011	0.000**	Not Supported	Supported
Coe	efficient-Age			t-statis	ric-Age		p-values-A	ge
0.8	< 40 ■≥ 40		10	<b>■</b> <40	<b>■≥</b> 40	0.4	<b>=</b> <40	≥40
0.6		-	8	_		0.3		
0.4		_	6			0.2		
0.2	H		2		-1	0.1		
0 PBC -> Int Int -:	>Bhv SN->Int	Att->Int	PBC -> I	nt Int->Bhv	SN ->Int Att-	>Int PB	C-> Int Int->Bhv S	SN ->Int Att->Int

*Note:* significant level p < 0.05, p < 0.001

Based on the analysis using educational background (Table 7), ME entrepreneurs who have higher education have a higher level of confidence to develop their business. Different educational backgrounds do not make a difference on others

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variable relationship. The relationship between attitudes toward intentions and intentions toward behavior to develop the business have a similarity that CBE programs give positive and significant relationship emphasis. Conversely, the relationship between the subjective norms of intention tend not to have a strong relationship. The strongest relationship in the age analysis results between intention and behavior to develop the business.

**Table 7.** Analysis of PLS-SEM Outcome – Education

Edward an	Education Coefficient		t-stat	t-statistic		p-values		ision
Education	ES	> <b>ES</b>	ES	> ES	ES	> <b>ES</b>	ES	> <b>ES</b>
PBC>	0.314	0.233	1.247	2.320	0.213	0.021*	Not Supported	Supported
Int> Bhv.	0.651	0.592	4.472	7.743	0.000**	0.000**	Supported	Supported
SN> Int.	0.338	0.293	1.801	1.039	0.072	0.299	Not Supported	Not Supported
Att> Int.	0.416	0.542	2.806	5.144	0.005*	0.000**	Supported	Supported
Edu	Coefficient Icational Attair			Edu	t-statistic ucational Attainm	nent	Ed	p-values lucational Attainment
0.8	■ ≤ES ■:	>ES	10		■ ≤ES ■ >ES		0.4	■≤ES ■>ES
0.6			8				0.3	
0.4			4				0.2	
0.2			2				0.1	
0 PBC -> Int	Int->Bhv Sf	N->Int Att->	0	PBC -> Int	Int ->Bhy SN ->	Int Att->Int	0 PBC -> Int	Int->Bhv SN->Int

*Note: significant level \*p<0.05,\*\*p<0.001* 

Analysis using a gender background finds that a significant difference between male and female lies solely in the confidence of the entrepreneur. In sum, female entrepreneurs have more confidence than male entrepreneurs. The result was evidenced by the relationship between PBC and intention to develop business tends to be more significant (Table 8). Meanwhile, relationships among other variables tend to have no difference. The CBE programs have a positive and significant impact on the relationship between intention to behavior and also attitudes toward intention. Moreover, both relationship has a very strong relationship which is described on the value indicated from both coefficients. While the relationship between the subjective norm with the intention of both have no significant relationship.

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Coefficient t-statistic p-values Decision Gender Fema **Femal** Male **Female** Male Male Male **Female** le e Not Supported 0.270 PBC --> Int. 0.250 0.900 2.440 0.370 0.010\*Supported Int. --> Bhv. 0.610 0.620 5.450 8.310 0.000\*\* 0.000\*\* Supported Supported Not Not SN --> Int. 0.260 0.270 1.080 1.200 0.280 0.230 Supported Supported 0.470 0.000\*\* 0.000\*\* Att. --> Int. 0.500 3.340 4.520 Supported Supported Coefficient-Gender p-values-Gender t-statistic-Gender ■ Male ■ Female Male Female Male ■ Female 0.3 0.6 0.2 0.1 PBC -> Int Int ->Bhy PBC -> Int Int ->Bhv SN ->Int PBC -> Int Int ->Bhy SN ->Int Att->Int

**Table 8.** Analysis of PLS-SEM Outcome – Gender

Note: significant level p<0.05, \*\*p<0.001

#### RESULT AND DISCUSSION

The CBE education program evidently influence the entrepreneurial commitment to rural ME entrepreneurs in developing their business. The findings of this study is fully supported by prior studies that examined education's role in encouraging entrepreneurship (Fayolle *et al.*, 2006; Njeje, 2015; Peterman and Kennedy, 2003; Soutaris *et al.*, 2007). The CBE program drove the relationship between rural ME entrepreneurs intention and behavior in developing the ME's businesses. The other finding of this study also indicate that internal factors as well as attitude showing a dominant part. Other finding shows The CBE program has strengthened the confidence of rural ME entrepreneurs to develop their business as a main driver of entrepreneurial activity. Rural ME entrepreneurs reduce their perceptions of difficulties such as barriers to develop their business and transform them into a positive perspective. Last finding suggests that the entrepreneurial commitment of rural ME entrepreneurs is not influenced by social factors due to different perspectives in their social environment which is not common having a profession as an entrepreneur.

The rural MEs demographic study report several interesting findings. The findings support previous studies which suggest that entrepreneurial activity is influenced by entrepreneurs' profile (Lévesque and Minniti, 2011; Lamotte and Colovic, 2013; Minitti *et al.*, 2005; Turker and Selcuk, 2009; Wilson *et al.*, 2007; Humbert, 2010). In detail, the study shows significant differences in PBC variables on developing the business commitment by age, gender, and education level. In short, the main point is that CBE education programs are only effective for certain characteristics. For example, positive and strong perception in developing the business is shown in the age group under 40 years and younger, while those 40 years and older perceive not significantly. Younger ME entrepreneurs may consider more confidence to develop the business rather than older ME entrepreneurs. The desire to try new things at a younger

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age may strengthen this perception. Contrariwise, the age of more than 40 years has a better attitude in developing the business. This possibility is due to age group has a more stable psychological condition compared with age 40 and below.

Based on educational background, ME entrepreneurs with a higher education level than elementary school have a better confidence than those with an elementary school background and below. The level of education provides better insight into entrepreneurship because more education helps ME overcome obstacles or at least reduce the constraints that arise. Finally, female entrepreneurs have a better level of confidence in developing the business. This finding is reinforced by prior research reporting the important role of demographic factors such as gender in developing a business (Afrin *et al.*, 2010; Bönte *et al.*, 2007). In contrast, male ME entrepreneurs have lower confidence. Female at a certain age in rural areas who are positioned as housewives consider self-employment to be a solution to increase their welfare. While men who are considered the breadwinner of the family tend to avoid risk which believe entrepreneurial activity is more presure and insecure due to high uncertainty. Thus, they continously work as a farmer and others stable profession (Hendrayani, 2013; Wisantyo and Madiistriyatno, 2015).

### **CONCLUSION**

Convincingly the CBE program is able to encourage behavior of ME to develop their business. The CBE program accelerate them to be able to realize developing their business and not just an intention. The CBE programs are also able to emphasize the attitude and entrepreneurial confidence of ME in the development of their business. However, the CBE program is not able to change the perception of ME in terms of social factors. This is due to differences in social conditions of society with the current profession. This problem is caused by differences of views between the entrepreneurs and their living social environment. Entrepreneurs are profession that is not common in their daily lives which dominated by farmers and other stable professions. In implementing a similar program, it is anticipated to have a distinctive study as it is proven that the demographic profile of the entrepreneurs shows an essential role in the effectiveness of the program.

**Practical Implications.** This study provides benefits to stakeholders of the CBE education program. For community development activists, this study shows that the developed model is acceptable and also has significant influence in rural ME entrepreneurs' commitment to develop their business. The study also provides information that the CBE education program should adapt to demographic backgrounds as well as age, gender, and education to ensure the sustainability and effectiveness of this program. The rural ME entrepreneur's profile should specify under 40 years of age, female, and with education higher than elementary school as the target of community development program implementation. As for faculty in higher education institutions, the CBE education program can increase their social competence through imparting the university values (Sasmoko *et al.*, 2016).

The CBE education program also have an advantage to the government. The CBE model can be a reference for the development of social welfare, especially in rural

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areas. In addition, the CBE program can serve as a partner for effective local government in channeling policies such as village grant programs (*Dana Desa*) and credit for businesses programs (*Kredit Usaha Rakyat*) or for private institutions as an instrument for conducting their coorporate social responsibility (CSR) program.

Limitation and Future Research. This research has several restraints. First, the study only examines some areas; therefore, the results cannot be generalized and may not reflect the results in other areas. This shortcoming can be addressed in further research by implementing this model in other areas. Second, the sample used is very limited, which may compromise the data validity (Hair *et al.*, 2010). The biggest challenge encountered is securing participation of the rural MEs by using the model. We realize our program is not yet supported by many parties and also lacks incentives for rural MEs. In the future, similar research is expected to be conducted with more and varied samples to enrich the insight and improve the data analysis. Last, the demographic attributes used in this study are still limited. A specific demographic review of rural entrepreneurship is also a potential research area for the future.

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