Determinants of Entrepreneurial Intention among TVET students in North Rift Region, Kenya.

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Abstract: Entrepreneurship education is critical in giving an opening to students the knowledge and skills needed for new venture creation among TVET students in developing countries, however, despite its prominent roles only a small number of TVET graduates become entrepreneurs after graduation. There are limited number of studies on entrepreneurial intentions in TVET institution in Kenya thus creating a gap of existing literature. The general objective of the study was to examine the determinants of entrepreneurial intentions of technical and vocational training institutions students in North Rift Region, Kenya. The study employed the explanatory research design and used 2935 students from TVET institutions in north rift region. The study used systematic random sampling technique to select a sample size of 352 final-year students. The used data from self-responding questionnaires which was analysed through the use of descriptive and inferential statistical methods. The study found that attitudes toward the entrepreneurial behaviour, subjective social norm and perceived behavioural control had a positive effect on entrepreneurial intention. The R² = 0.580 implying that the antecedents of TPB explained 38% of the variations in students’ entrepreneurial intention with perceived behavioural control (β₁ = 0.448) having the highest effect, followed by attitudes towards entrepreneurship (β₂ = 0.441) while subjective social norm (β₃ = 0.104). Therefore, the study concludes that students need to be made aware of the process of creating an entrepreneur and how they can work towards being entrepreneurs. Furthermore, students need to be encouraged to be encouraged to associate themselves with reference on entrepreneurship since social norms has the lowest significant influence on entrepreneurial intention. Students need to be aware of the process of creating a new business and how to deal with external factors that impede them from starting a business.

Key words: Entrepreneurial intention, Antecedents of TPB, TVET education, TTIs in Kenya

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I. Introduction

Entrepreneurial Intention

Entrepreneurial intention is seen to be the most appropriate construct that can predict entrepreneurship to which the theory defines it as a planned behaviour where new businesses are created on the basis of planning(Lo, 2011). Thus, the entrepreneurial intentions of students are very similar in each economy but the perceived barriers to entrepreneurial intentions vary between more or less developed countries(Ferreira, Loiola&Gondim, 2017). Entrepreneurs have specific characteristic features which are distinct from the normal population, thus the surge in attempts to measure this behaviour (Souza et al., 2017). This fact indicates that entrepreneurial intention has many definitions which all centre on conscious state of the mind(Shook, Priem&Mcgee, 2003); personal conviction(Thompson, 2009); personal projection(Finiet al., 2009) which is directed towards the new business venture creation (Ferreira et al.,2017). However, the challenge in the origination of the entrepreneurial intention. Jieand Harms (2017) acknowledges that educational initiatives such as entrepreneurship education serve as an effective way of developingentrepreneurial intention in students. Thus, entrepreneurship education is key and will likely increase attitudes towards entrepreneurship attitudes of both potential and budding entrepreneurs(Liñán et al., 2011). It is also critical in enhancing the individual’s entrepreneurship attitudes at tertiary level of education by first, increasing the consciousness and the interest of the student to consider entrepreneurship as a career option and secondly providing the student with experience of mastery, role modelling, social persuasion and support(Mehari & Belay, 2017). There are two divergent views on the effect of entrepreneurship education on entrepreneurial intention and subsequent activity. One line of though intimate that people with low education levels can only actualize themselves through entrepreneurial activity, the other suggest that individual with high education levels can thrive in either paid employment or entrepreneurial activity (Mehari & Belay, 2017). The entrepreneurial intentions seem to draw on from the entrepreneurial educational programmes that a student partakes in. And as suggested by Von Graevenitz et al.,
(2010), entrepreneurial education distinctly affects the mind of a student in three important ways: firstly, by influencing knowledge and skills; secondly, by shaping the attitudes and perceptions which consequently affects on entrepreneurial intention and action and lastly it allows the student to engage in entrepreneurial activity in an experimental setting. Thus, entrepreneurial education seem to support the entrepreneurial intention of the students (Pouratashi, 2015). Calls for studies on entrepreneurial intentions of students in institution of higher learning have been on the rise, particularly, students are tertiary education level. Applying the Theory of Planned Behaviour (TPB) (Ajzen, 1991) suggested that attitudes, subjective norms (SNs), and perceived behavioural control (PBC) determine the entrepreneurial intentions, the study focuses on the following research objectives:

RO1: To determine the effect of attitudes towards entrepreneurship on entrepreneurial intention of TVET students in North Rift region, Kenya.

RO2: To establish effect of subjective social norm on entrepreneurial intention of TVET students in North Rift region, Kenya.

RO3: To determine the effect of perceived behavioural control about entrepreneurship on entrepreneurial intention of TVET students in North Rift region, Kenya.

The study reviews existing literature while deriving the hypotheses, the looks at the theoretical framework, next is the methodology section which describes the sampling and sampling procedures as well as reliability. Lastly, the study tests the hypothesis using hierarchical regression analysis using STATA 11.0. Results are then presented and discussion section follows before theoretical implications and practice are highlighted.

Entrepreneurial Intention In Tvet Institutions In Kenya

Many policy makers in several African countries have seen the critical role played by TVET in the national development (Union, 2007) and thus entrepreneurship education and training has been given prominence in secondary and tertiary education systems (Mat et al., 2015). In Europe and the US, entrepreneurship education is ranking high in policy decisions and agendas (Von Graevenitz et al., 2010) while in Kenya it is seen as an anchor to economic pillars of science, technology and innovation (Ngure, 2013). Many African government, Nigeria included has introduced mandatory and compulsory entrepreneurship education and training programmes in institutions of higher learning in order to improve the likelihoods of the graduates of pursuing entrepreneurship (Adekiya & Ibrahim, 2016). In Ethiopia, entrepreneurship education is offered by Technical and Vocational School (TVS) training, however, the statistics show that majority of the youth do not participate in the in technical and vocational school (Mehari & Belay, 2017). In Kenya, the ministry of education, science and technology, initiated the teaching of entrepreneurship in tertiary institutions under the Technical Vocational and Entrepreneurship Training (TVET) programmes (Ouya, Kibas & Otuya, 2013). TVET is an elaborate education and training programmes with five levels: at lowest level, an artisanship certificate at ayouth polytechnic (YP); a craftmanship certificate at technical training institutes (TTIs) and institutes of technology (ITs); a diploma certificate at the national polytechnics (NPs) and specific TTIs and ITs; technology degree at (NPs) and Technical Universities(TUs); and masters’ degree (advanced technology degree) at the Technical University (Ngure, 2013). This system with over 600 public and private TVET institutions is managed by a state corporation called the Technical and Vocational Education and Training Authority (TVETA) that was created under the Technical and Vocational Education and Training (TVET) Act of 2013 (TVETA, 2017).

Though with significant differences in approach towards the TVET education and training, most TVET education systems are geared towards entrepreneurship development (Simiyu, 2010) which is achieved through two ways: the business management courses which teaches the learner aspects of management of a business and the human capital investment which induces the learner to create new ventures by integrating knowledge, skills and experience to create and expand business (Wright & Plasterer, 2012). Further, entrepreneurship education is critical to the performance of three task: first it confers the students with the ability to successfully perform entrepreneurial task such as conducting a market analysis, pitching an idea, or writing business plan; Second, exposes student to role modelling or case studies; and third, provides social persuasion through discussion, feedback or assignments (Shinnare et al., 2014). Eventually, entrepreneurship education can be said to confer the student the ability to gauge and pursue a career in entrepreneurship (Von Graevenitz et al., 2010) but, entrepreneurship education can implant the intention and activate the trigger that the entrepreneurial event theory considers as the interaction between contextual factors to influence the perceptions of the individual towards entrepreneurship (Liñán, 2004).
II. Theoretical Framework

The study adopted the Ajzen’s(1991) theory of planned behaviour (TPB) because it has been proven to be robust across national contexts (Shneor, Metin&Bayhan, 2013). Further, the study utilizes the Shapero and Sokol’s (1982) model of the entrepreneurial event (EE) because in the educational setting it is expected that the end of the learning should trigger the TVET graduate to develop the entrepreneurial intention.

Theory of Planned Behaviour

The theory was first developed by Fishbein (1967) who was first to recognized that several factors can be include into the predictive power of attitudes on behaviour in a systematic order (Wicker, 1969). This model became the basis of Ajzen and Fishbein’s theory of reasoned action (1974), which basically integrated the concepts of normative beliefs and willingness to comply into one, subjective norm. The theory of theory of reasoned action later lead to Ajzen’s theory of planned behaviour (TPB) (1991). The TPB theory states that the behaviour of an individual is determined by that person’s intentions and in turn these intentions are cumulatively predicted by attitudes, subjective norm and perceived behavioural control over that behaviour (Ajzen, 1991). TPB is seen to appropriate on the theoretical basis in that it provides wholistic information touching on the formation process of entrepreneurial intention at both personal and social level (Lo, 2011).

The theory of planned behaviour was proposed by Ajzen in 1991 and states that an individual’s intention is determined by three components: attitude towards behaviour (ATB), subjective norm and perceived behavioural control (PBC). The theory assumes that, ATB, subjective norm, and PBC determine the intention to perform a behaviour and that each of these determinants provides the motivational foundation for forming an intention (Schlaegel & Koenig, 2014). However, the TPB theory cannot be generalized in all country context in that its model elements and the variance explained by the model differs from country to country as foreseen by Ajzen (Bizri, 2017). Further, it falls short on measurement of entrepreneurial intent; the simultaneous measurement of beliefs, attitudes, and expectations runs counter to the assumptions of the TPB which may lead to significant errors in interpretation; and secondly it overlooks other significant avenues that may explain and/or justify the entrepreneurship process other than the intent to start a business (Valliere, 2014). Lastly, Schlaegel & Koenig, (2014) assert that TPB only describes the intention but lacks the pathway towards the relationship between attitude and intention.

Entrepreneurial Event Model

The model is referred to as the entrepreneurial event model (EEM) (Shapero & Sokol 1982) and is used to describe the intentionality of the overall entrepreneurial process (Zhang et al., 2014). Shapero and Sokol (1982) claimed that feasibility, desirability, and propensity to act influence the intention to start a venture. The perceived desirability and feasibility then relatively determines credibility to alternative behaviours, and thus entrepreneurial intention (EI) arises partially from exposure to entrepreneurial activity (Shapero & Sokol 1982).

The EEM assumes that human behaviour is in inertial state and can be interrupted or replaced by something (Zhang et al., 2014). The displacement occurs through events which were conceptualized as situation, positive or negative that are necessary to break people out of their normal routines that they have developed over time (Kuehn, 2008). Inertia in human action requires trigger or precipitating event that either pushes or pulls individual to change the course (Kuehn, 2008). Shapero and Sokol, thus proposed that transition stages forms the event, in the case, learning involves the transition from the classroom as an event where the person is open to different paths in life and career options. Liñán et al., (2011) assert that perceived feasibility seem to be quite analogous to PBC while perceived desirability is synonymous to the inclination to carryout the entrepreneurial behaviours and is exemplified by personal attitude and perceived social norms. Further they considers start – ups as a complex behaviours that cannot be said to be under control of the would – be entrepreneur.

III. Scope of the Study

The study was limited in geographical scope to the TVET institutions in the North Rift Region, Kenya. These institution comprised of Rift Valley Technical Training Institute (RVTTI), Ol’Lessos Technical Training Institute (OTTI), Kital Technical Training Institute (KitTI), Kaiboi Technical Training Institute (KaTTI) and The Eldoret National Polytechnic (ENP). The region was chosen for the study because of presence of homogeneity in culture and feasibility. The study targeted 2935 final year students from five TVET institutions because the subjects possessed the definitive traits and attributes that the study sought to determine i.e. entrepreneurial orientation. The study only assessed the determinants on entrepreneurial intention among students of TTIs in North Rift Region and it sought to establish the influence between attitudes toward the entrepreneurship, subjective social norm and perceived behavioural control on entrepreneurial intention. The units of analysis were final year TVET students pursuing entrepreneurial course as a unit. This was due to the fact the study
subjects could exhibit the intentional and behavioural processes that are sensitive to entrepreneurial aspects. Further, final students can be said to hold measurable vocational inclinations at a time when they will soon be required to make important career choices, and such a sample includes subjects with a broad spectrum of intentions and attitudes towards entrepreneurship.

IV. Methodology
The study employed the explanatory research design in that the study sought to test the antecedents of the TPB on student’s entrepreneurial intention. Explanatory design is more appropriate when the study is seeking to establish causal relationships between the variables (Saunders, Lewis & Thornhill, 2009) and goes beyond description and attempting to explain the reasons for the phenomenon being observed. The study utilized the survey as a data collection procedure. Surveys are perceived to be authoritative in general and that it allows economical for the collection of a large amount of data from a large population.

V. Sample and Data Collection
The study used Kent sample size formula to select 352 final year students as shown below

\[ n = \frac{N}{1 + Ne^2} \]

Where: n = Sample size, N = Population size and e = the error of sampling. This study allowed the error of sampling on 0.05. Thus, the samples size for the population was 352 final year students. Further, with Neyman allocation, the sample size for stratum, \( n_h \) was calculated as:

\[ n_h = \left( \frac{N_h}{N} \right) n \]

Where, \( n_h \) - sample size for stratum, h; \( n \) - Total sample size; \( N_h \) - The population size for stratum h; N - The total population. The sample was distributed proportionally among the five strata. Systematic random sampling was then used to select the respondents and involved regularly drawing then \( n \)th element from the population but after a randomly chosen element.

Measurement of variables
First, the study sought to identify and define what is to be measured; and secondly, developed an operational definition of the concept in questions (Depoy & Gitlin, 2011). The study first identified and defined the measures to be used and then adopted indicators from earlier studies as follows. The study adopted six items from Liñán and Chen (2009) to measure the entrepreneurial intention. Other items were taken from Kolvereid (1996) and Armitage and Connor (2001); five items from Linan and Chen (2009) to measure the attitudes of students toward entrepreneurship; three items from Kolvereid (1996), which had been used in Krueger et al. (2000) and Souitaris, Zerbinati & Al-Laham, (2007); and eight items from Linan and Chen (2009) and Kolvereid (1996) to measure perceived behavioural control.

VI. Validity And Reliability
Content validity was obtained through pilot testing on 30 Bachelor of Business Management final year student from the West Campus, Moi University. Further, Depoy & Gitlin, (2011) suggest the use of indicators from past studies as a form of validation. Internal consistency was examined through the most popular test of inter-item consistency reliability i.e. Cronbach's coefficient alpha with a cut off criteria being 0.70 indicating the adequacy of the instrument for confirmatory purposes (Garson, 2013). The Cronbach alpha test values ranging from 0.702 (Attitudes of students toward entrepreneurship), 0.743 (perceived behavioural control), 0.749 (subjective social behaviour) and 0.749 (entrepreneurial intention).

VII. Data Analysis
Data preparation was carried out in several significant steps which include data editing, coding and entry, before the data is analysed. The data collected were checked for errors before being sorted, classified and coded into a statistical analysis software, SPPS version 20.0. After these data was then be analysed through descriptive and inferential statistics and presented in tabular format.

VIII. Results
The study managed to collect a total of 328 respondents, a response rate of 93% indicating an excellent response rate that could be attributable to the data collection tactics used in the study.
Determinants of Entrepreneurial Intention among TVET students in North Rift Region, Kenya

Table 1 Demographic Characteristics

<table>
<thead>
<tr>
<th>Gender</th>
<th>Frequency</th>
<th>Percent</th>
<th>Means</th>
<th>t-test</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>93</td>
<td>28.4</td>
<td>1.915</td>
<td>4.761</td>
<td>0.03</td>
</tr>
<tr>
<td>Male</td>
<td>235</td>
<td>71.6</td>
<td>2.163</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>328</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age bracket</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below 25yrs</td>
<td>311</td>
<td>94.8</td>
<td>2.1315</td>
<td>1.552</td>
<td>0.214</td>
</tr>
<tr>
<td>Between 26-30</td>
<td>17</td>
<td>5.2</td>
<td>1.9664</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>328</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Field Data (2017)

The gender distribution in the Table 1 shows that male respondents represented 71.6% (235), on the other hand 28.4% (93) were female. As far as age of respondents is concerned, 94.8% (311) of the respondents are below 25 years while 5.2% (17) are in the range of 26-30 years. The indications are that, there are more male TVET students in Kenya than there are female ones. Ngure (2013) suggest that the female participation rate is generally lower than that of their males counterparts, partly due to societal beliefs which discourage women from enrolling in technical courses. Though majority of the respondents were below 25 years, Mehari & Belay, (2017) suggest that the entrepreneurial intentions increases with age with optimum age being between 25 and 34 years. The statistic, $t = 4.761$, $p< 0.05$ indicates that male students have significantly higher entrepreneurial intention than their female counterparts. In Africa, entrepreneurship is depicted as a form of masculinity(Mehari & Belay, 2017) and that’s probably why there is gender differences in entrepreneurial intentions. Further, Shinnar, Hsu & Powell, (2014) indicates that the entrepreneurship education seem to have a positive effect on the male students than female students, while Gird (2005) reported South Africa males students had significantly higher entrepreneurial intentions than their female counter parts. However, there are statistical differences between the ages, $t = 1.552$, $p> 0.214$.

Descriptive statistics

<table>
<thead>
<tr>
<th></th>
<th>N</th>
<th>Mean</th>
<th>SD</th>
<th>Entrepreneural intention</th>
<th>Attitudes toward entrepreneurship</th>
<th>Subjective social Norm</th>
<th>Perceived behavioural control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrepreneurial intention</td>
<td>2</td>
<td>2.123</td>
<td>0.532</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attitudes toward entrepreneurship</td>
<td>8</td>
<td>2.343</td>
<td>0.650</td>
<td>.615**</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subjective social norm</td>
<td>2</td>
<td>1.970</td>
<td>0.507</td>
<td>.282**</td>
<td>.138*</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Perceived behavioural control</td>
<td>8</td>
<td>2.810</td>
<td>0.375</td>
<td>.632**</td>
<td>.356**</td>
<td>.262**</td>
<td>1</td>
</tr>
</tbody>
</table>

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level.

The results show that the students have low levels of entrepreneurial intentions( Mean = 2.123, SD = 0.532), with considerable lower levels of subjective social norm(Mean = 1.970). The students had moderate levels of perceived behaviour control (Mean = 2.810, SD = 0.375) with lowered attitudinal levels towards entrepreneurship(Mean = 2.343, SD = 0.650).The Pearson Correlation coefficient results indicated in table 2 showed that Attitudes of students toward entrepreneurship is positively related with entrepreneurial intention ($r = .615$, $p<0.01$) while subjective social norm positively related with entrepreneurial intention($r = 0.282$, $p< 0.01$) with, PBC positively associating with entrepreneurial intention ($r = 0.632$, $p< 0.01$). The results indicate significant correlation between the variables with PBC having the correlation coefficient indicating that it would likely indicate the direction and strength of the relationship.
Factor analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>h²</th>
</tr>
</thead>
<tbody>
<tr>
<td>If I had the opportunity and resources, I would love to start a business.</td>
<td>0.711</td>
<td></td>
<td></td>
<td>0.714</td>
</tr>
<tr>
<td>Amongst various options, I would rather be anything but an entrepreneur.</td>
<td></td>
<td>0.872</td>
<td></td>
<td>0.808</td>
</tr>
<tr>
<td>Being an entrepreneur would give me great satisfaction</td>
<td></td>
<td>0.781</td>
<td></td>
<td>0.874</td>
</tr>
<tr>
<td>Being an entrepreneur implies more advantages than disadvantages to me.</td>
<td></td>
<td>0.830</td>
<td></td>
<td>0.927</td>
</tr>
<tr>
<td>To start entrepreneurship activities, I will benefit from experience consultant</td>
<td>0.548</td>
<td></td>
<td></td>
<td>0.942</td>
</tr>
<tr>
<td>My friends members will give me emotional support if I decide to become an entrepreneur</td>
<td></td>
<td>0.771</td>
<td></td>
<td>0.936</td>
</tr>
<tr>
<td>To start entrepreneurship activities, I will get enough benefit from country entrepreneurship network.</td>
<td>0.635</td>
<td></td>
<td></td>
<td>0.922</td>
</tr>
<tr>
<td>To start entrepreneurship activities, I will benefit from customer and suppliers’ network.</td>
<td></td>
<td>0.799</td>
<td></td>
<td>0.937</td>
</tr>
<tr>
<td>To establish business plan, I will get benefit from agencies related to formal entrepreneurship activities.</td>
<td></td>
<td>0.552</td>
<td></td>
<td>0.789</td>
</tr>
<tr>
<td>I am able to control the creation process of a new business</td>
<td></td>
<td></td>
<td>0.739</td>
<td>0.622</td>
</tr>
<tr>
<td>If I tried to start a business, I would have a high chance of being.</td>
<td></td>
<td>0.791</td>
<td></td>
<td>0.584</td>
</tr>
<tr>
<td>I know all about the practical details needed to start a business.</td>
<td></td>
<td>0.706</td>
<td></td>
<td>0.605</td>
</tr>
<tr>
<td>for me, developing a business idea would be easy.</td>
<td></td>
<td>0.731</td>
<td></td>
<td>0.739</td>
</tr>
</tbody>
</table>

Total Sum of squares(eigenvalue) 3.316 3.197 2.905 9.418
Percentage of trace 17.452 16.825 19.289 53.566

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization.

From Table 3, a total of 19 items were factor analysed using Principal Component Analysis while the Kaiser’s criterion for retention of factors was followed with eigenvalues > 1.0. Thesample size was large enough for the factor analysis, at least based on the Kaiser-Meyer-Olkin measure of sampling adequacy (KMO = 0.614). The three antecedent to TPB contribute over 50 % variance in entrepreneurial intentions of the TVET students. Component two represents the subjective social norm, while component one represents attitudes towards entrepreneurship with component three representing perceived behavioural control.

Diagnostic test

The following diagnostic test were carried out based on the assumptions of linear regression: linear relationship between parameters, no perfect collinearity, data is normally distributed and homoscedastic (Wooldridge, 2013). Both the graphical plots and any statistical tests (Shapiro-Wilk test) were used to assess the actual degree of departure from normality (Hair et al., 2010) with the data being normally distributed. The test for homoscedasticity for two metric variables was examined through the use of a statistical test called Breusch-Pagan-Godfrey test. The test results was not significant indicating that homoscedasticity was assumed. Linearity was examined through the use of a correlation coefficient in that the coefficient represent only the linearity between the variables and excludes of non-linearity in the data. All the VIF values in the equation was less than 10 indicating that multicollinearity was not encountered.

Regression Analysis

<table>
<thead>
<tr>
<th>Table 4 Regression analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstandardized Coefficients</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>(Constant)</td>
</tr>
<tr>
<td>Attitudes toward entrepreneurship</td>
</tr>
<tr>
<td>Subjective social norm</td>
</tr>
<tr>
<td>Perceived behavioural control</td>
</tr>
</tbody>
</table>

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**Determinants of Entrepreneurial Intention among TVET students in North Rift Region, Kenya**

<table>
<thead>
<tr>
<th>R Square</th>
<th>0.583</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>151.24</td>
</tr>
<tr>
<td>Sig.</td>
<td>.000b</td>
</tr>
</tbody>
</table>

a Dependent Variable: entrepreneurial intention

The results in table 4 revealed that variation of entrepreneurial intention among students were explained by attitudes towards entrepreneurship, subjective social norm and perceived behavioural control as supported by adjusted R$^2$ = 0.580 which means that the suggested model predicted about 58% of the change in entrepreneurial intention.

**Hypothesis Testing**

As hypothesized in the TPB, the antecedents of the TPB were studied and explained 58.3% of the variation in entrepreneurial intention. Thus;

**Students’ Entrepreneurial intention** = (-0.731) + 0.441(attitudes towards entrepreneurship) + 0.104(subjective social norm) + 0.448(perceived behavioural control). The beta coefficients: constant, $\beta_0 = -0.731 (t = 4.855, p< 0.05)$; attitudes towards entrepreneurship, $\beta_1 = 0.441 (t = 11.481, p< 0.05)$; subjective social norm, $\beta_2 = 0.104(t = 2.802, p< 0.05)$; and perceived behavioural control, $\beta_3 = 0.448$, $(t= 11.35, p< 0.05)$. All the p – values < 0.05 indicating that all the coefficients were significant.

**Hypothesis 1**

$H_{01}$: The student’s attitude toward entrepreneurship has no significant effect on entrepreneurial intention.

The results presented in Table 4 revealed that attitudes of students toward entrepreneurship has a significant effect on entrepreneurial intention, $\beta_1 = 0.441 (t = 11.481, p< 0.05)$. These indicates that a unit increase in students’ attitude towards entrepreneurship, will result in 0.441 unit increase in entrepreneurial intention. The study findings therefore reject the null hypothesis that the student’s attitude toward entrepreneurship have no significant effect on entrepreneurial intention and concludes that attitudes towards entrepreneurship determines entrepreneurial intentions of the students in the TVET institutions.

**Hypothesis 2**

$H_{02}$: The student’s subjective social norm has no significant effect on entrepreneurial intention.

The results as presented in Table 4 revealed that subjective social norm has a significant positive effect, $\beta_2 = 0.104(t = 2.802, p< 0.05)$. This indicates that a unit increase in subjective social norm will result in 0.104 unit increases in entrepreneurial intention. The study findings therefore reject the null hypothesis that the student’s subjective social norm has no significant effect on entrepreneurial intention and concludes that subjective social norm determines entrepreneurial intentions of the students in the TVET institutions.

**Hypothesis 3**

$H_{03}$: The student’s perceived behavioural control has no significant effect on entrepreneurial intention.

The results as presented in Table 4 revealed that perceived behavioural control has a significant effect, $\beta_3 = 0.448,( t= 11.35, p< 0.05)$. This indicates that a unit increase in perceived behavioural control results in 0.448 unit increase in entrepreneurial intention. The study findings therefore reject the null hypothesis that the student’s perceived behavioural control has no significant effect on entrepreneurial intention and concludes that perceived behavioural control determines entrepreneurial intentions of the students in the TVET institutions.

**IX. Discussion**

The results from the regression analysis showed that all the three elements of TPB were statistically significant, with perceived behavioural control ($\beta_3 = 0.448$) having a highest effect, followed by attitude ($\beta_1 = 0.441$) and lastly, subjective social norm, ($\beta_2 = 0.104$). This results affirms the theory of planned behaviour in an tertiary level of education where entrepreneurial education takes place. This indicates that the PBC had the highest effect which is consistent with findings by García-Rodríguez et al., (2015) which indicate that in SSA, Senegal PBC had the highest effect while in Europe, Spain, personal attitude mattered more. Evidently, there are difference in the specific effects of the antecedents of PBC, for instance (Yousaf et al., 2015) rated attitude towards entrepreneurship and subjective norm leads to the development entrepreneurial intentions in Pakistan, while Jagannathan et al., (2017) assert that social capital /connections predict the pro-entrepreneurial attitudes and consequently has the highest effects. Joensuu-Saloet al., (2015) also rated attitude highest followed by PBC while effects from entrepreneurial characteristics and Social norm were significant but quite small.

Attitude towards is the first component that and thus Mehari & Belay, (2017) affirmed it be vital in enhancing entrepreneurial intention of a student. The attitude towards entrepreneurship is primarily derived in two ways: either innately through social capital (Jagannathan et al., 2017) or extrinsically through entrepreneurial education (Lo, 2011). According to Varamäkiet al., (2015) changes in attitude has both direct
and indirect effect on the entrepreneurial intention. On one hand, it directly determines the entrepreneurial intention, while on the other, it mediates on the effect PBC on entrepreneurial intention by influence the change in PBC. Krueger, (2003) notes that entrepreneurial intentions are determined by attitudes whereas the attitudes are influenced by exogenous influences such as traits, education, demographics and situational variables. Subjective social norm seem to have a marginal effects, however, in other context, social factors such as the family background significantly influence the student’s entrepreneurial intention (Egerová et al., 2017). Mat et al.,(2015) assert that social networks forms an important avenue from which entrepreneurs gain access to resources, ideals, capital and information which would translate to significant effect on the entrepreneurial intention(Ferreira et al., 2017). Social networks and PBC impacts directly on the students entrepreneurial intentions(Sesen, 2013), but in other context, it is a differentiating factor in that students with parents who have entrepreneurial experience have higher entrepreneurial intention when compared to their counterparts. (Yu-yanet al., 2013). Intrinsically, the elements of social capital/norms seem to have direct and indirect effects on student’s entrepreneurial intention. The social networks have two significant effect: it impacts on the entrepreneurial intentions and further it sustains the new business that has been created(Sesen, 2013) Perceived behavioural control has the highest effects in the study context, a finding that resonates with Kwong & Thompson, (2016) which indicated that perceived behavioural control has a significant effect in determining entrepreneurial intention in UK business students. Inspite of the findings, Shneor et al., (2013) indicated that change in attitudes and perceived behavioural control are related to the change in intentions. An educational system can act at the elementary and secondary levels to advance the positive attitudes towards entrepreneurship(Ferreira et al., 2017), therefore, a great emphasis on entrepreneurial training programs at institutional environments may aid in harnessing enthusiasm(Kwong & Thompson, 2016).

X. Implications

The theory of planning behaviour predicts that planned behaviours are determined by behavioural intentions which are largely influenced by an individual’s attitude toward a behaviour. This study provides support that the TPB antecedents can predict behaviour of a students to become entrepreneur (Attitudes toward entrepreneurial behaviour, subjective social norms, perceived behavioural control) that can trigger individual behaviour towards his/her intentions. Regarding the antecedent with the most effect, perceived behavioural control is the most significant factor in student’s entrepreneurial intention of TVET institutions on Kenya. The TVET students seem to have the behaviour that suited towards the establishment of the business and thus it would be indirectly related to the learning environment which teaches them the practical aspects of establishing and running business ventures. To address the low levels of attitude towards entrepreneurship, the TVET institutions should design practical lessons that are both effective in achieving the objective of imparting the practical skills. Also, students need to be made aware of the benefits of being an entrepreneur and how they can work towards being entrepreneurs. Also, it is important that an entrepreneurship network is established to support entrepreneurship activities setting up. Experienced consultants need to assist the students in developing business plans. These way students will have an idea of business opportunities and how they can efficiently utilize resources as entrepreneurs. Furthermore, students need to be encouraged to associate themselves with reference groups that support entrepreneurship since social norms have a significant influence on entrepreneurial intention.

Limitations And Suggestion For Further Research

This study investigated the determinants of entrepreneurial intentions among students of technical and vocational training institutions in North Rift Region and was generalizability of findings to TVET institutions in North rift Region. Considering that there are approximately over 600 TVET institutions, the findings are only generalizable to the study area because of the differences in cultural aspects. The study cross section and thus it can be said to have captured the fleeting components of the entrepreneurial intentions at a time. There is need for a longitudinal study within the institutional set up in order to measure the entrepreneurial intentions over long term periods of learning. Furthermore, future researchers need to consider students’ training for self-employment as an important factor to raise the productivity of the informal sector in Kenya.

References

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