

Studying the Successor Startup Enterprises—A Case Study of Quang Binh Province, Vietnam

Tran Tu Luc*, Le Khac Hoai Thanh, Nguyen Thi Kim Phung

Faculty of Economic and Tourism, Quang Binh University, Dong Hoi, Vietnam

Email: *tranlucqbu@gmail.com

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Abstract

The paper aims to study and build a model to assess the success of startups. In Quang Binh province, Vietnam, in recent years, startup and entrepreneurship are being considered as goals and also a means to make three strategic breakthroughs, including institutions, infrastructure and human resources. With that trend, there are many new startups, young, vibrant and determined to realize their passion with intense business belief. However, there have not been many studies that assess the success and factors affecting the success of startup businesses in Quang Binh as well as in Vietnam. Therefore, the article systematizes the research in the world and in the country about the success and the factors affecting the success of startup businesses, thereby building a model to evaluate the success of the startup and be a scientific basis for researchers, investors to evaluate the success of startups. This study also makes practical contributions and the model can be used in Vietnam to increase the ability of success of startup enterprises.

Keywords

Startup, Entrepreneurship, Successful Startup, Success Prediction Model, Quang Binh Province

1. Introduction

Startup is a hot topic in countries around the world, which attracts the attention of businesses, investors, policymakers, scholars and researchers. Thus, there have been many researches related to startup.

In the past, there were some case studies like Lussier (1995) had designed a model to test non-financial predictors of the success and failure of young firms. Benzing et al. (2009) surveyed 139 businessmen in Ankara, Turkey to study motivations for business ownership, the factors contributing to success, and prob-

lems of business in Turkey. Chittithaworn et al. (2011) identified factors that are affecting business success of small and medium enterprises (SMEs) in Thailand.

Recently, finding the answer for the ability to success of startup still gets the attention of many scholars. Lussier model was applied by Hyder & Lussier (2016) on the success and failure of enterprises with the sample of 143 small businesses by regression statistical analysis. The results indicate that proper business planning, staffing, adequate funding, and partnerships are critical to the viability and success of small businesses in Pakistan. Da Silva (2016) developed a successful predictive model that can predict the success of Portuguese startups; with four explanatory variables: characteristics of founders, capital, characteristics of startups and external factors by using logistic regression.

Baidoun et al. (2018) examine the factors that lead to success or failure of a small business in the West Bank of Palestine using Lussier model. Results indicate that having adequate capital, keeping good records with financial controls, making plans and getting professional advice on how to manage the firm are the most important factors for the viability and success of small businesses.

Deb Nath, D. & Deb Nath, S. (2019) examine the factors that lead to success or failure of small business in North East India. The results indicated ten variables support the probability of success of small businesses if they have adequate capital, keep good records and financial control, have industry experience, have management experience, have specific business plans, receive professional advice, have higher level of education, have good product/service timing, have marketing skills, and are older in age.

According to Gyimah et al. (2019) many of them are about the question why some startups succeed and others fail? The findings are inconsistency, as they have failed to clearly identify a list or model of variables that do in fact contribute to the success or failure of small businesses (2019).

An overview of the theory and practice shows that previous studies on the success/failure of startup businesses often use financial or non-financial models and model of internal and external factors. The research results show that studied factors (both financial and non-financial and both internal and external factors) have an influence on the success/failure of the business, so the current research which uses a combination of these factors is more widely used.

Quang Binh is a poor province of Vietnam, the provincial GDP per capita is one of the lowest of Vietnam, the economy is mainly based on agriculture. Startup is being considered a solution to the local economic development; however, the fear of failure greatly affects entrepreneurship. Therefore, building a model to study the success of startups to help founders and agencies has appropriate measures to promote local startups. However, in Quang Binh and in Vietnam, there has not been any specific research study on the success of startups. Thereafter, the aim of this study is to identify the significant factors responsible for success and failure of startup in Quang Binh where no similar previous study was carried out and make practical contributions to increase the ability of suc-

cess of startup enterprises.

2. Literature Review

2.1. Startup

There is no universally accepted definition for startup, several parameters to define it have been used: age, profitability, growth metrics and other categories. Although, startups and new enterprises share some common characteristics, like age and size, they differ in essential points, namely strategy, innovation and ability to grow. There are many different views about startups. As review here are 3 views of starting a business as follows:

1) Startup is all business activities including starting a business, starting to operate a business activity, trading regardless of size. Accordingly opening a cafe is a startup; opening an online food store on Facebook is also a startup.

2) Startup is often associated with technology application, scalability and rapid growth—this form often distinguished from traditional business and small business enterprises (SMEs).

3) There are also broader understandings when considering Entrepreneurship as self-control, as the ability to create new values, thereby finding a stable job and income to support founders themselves and their family.

“Every startup is an active company that solves a problem when it’s not yet clear and success is not guaranteed” said Neil Blumenthal, co-founder and CEO of Warby Parker. Startup with Adora is *“When many people are involved in your company and pursue risky decisions and give up stability, in return for promises of future growth and excitement”*. According to American Heritage Dictionary, startup is *“the act or process of setting into operation”*.

From theoretical and practical research, the article defines the concept of startup for research as follows: *“Startups are all businesses registering for the first time regardless of size (including small-sized enterprises, medium-sized enterprises and large-scale enterprises)”*.

2.2. The Success of Startup

The business operates with social and economic goals as well as short-term and long-term goals. Therefore, a business is considered successful when it meets its operational goals. Identifying and measuring business success can be difficult because it is a relative measure.

Success can be measured in a variety of ways and it will depend on whether the business goals can be financial or non-financial, simple predefined expectations or the founder’s behavior. In 1986, Barney defined success as a measure of performance that occurs when businesses create value for their customers in a sustainable and cost-effective manner. Although, other performance measures have been used: business strategy, resources and organizational structure, processes and systems, revenue, employment growth (Hmieleski & Baron, 2009; Chrisman et al., 1998), profits and other financially performance measures

(Mayer-Haung et al., 2013).

Da Silva (2016) also differentiates survival and success. Survival is the minimum criteria of business success in all definitions. Survival is an absolute measure of enterprise performance that depends on the ability of the enterprise to continue to operate as a self-sustaining economic entity. The determination of a suitable period of time, after which survival is to be stated, is the most important methodological problem related to survival as a measure of business success. If the period is too short, the success measure is not demanding enough. If a too long reference period is chosen, the focus can be shifted from startups to established companies, considering the assumptions of startup definition.

Within this study, successful startups are identified as those that have been operating for over three years regardless of whether or not they change their ownership or achieve their goals. If a startup changes ownership over a four-year period and remains active, achieving its goals, it is determined to be a successful case.

3. Data and Methodology

3.1. Research Model

In order to build a model that includes factors to assess the ability of the enterprise to succeed, the study synthesizes, analyzes theories and researches related to this field. At the same time, collecting primary information through interviews with founders of some startups to determine the factors affecting the ability to succeed/fail of the business. The author proposes a research model (Figure 1) to evaluate the success of startup businesses including 6 groups of impact factors including: experience of founder (*kinhngkiem*), network of founder (*moiquanhe*), resources of startup (*nguồnluc*), startup products (*sanpham*), external environment (*moitruongbenngoai*) and business environment (*moitruongnganh*).

The general estimating equation could be written as follows:

$$TCDN_i = \beta_0 + \beta_1 KN_i + \beta_2 MQH_i + \beta_3 NL_i + \beta_4 SP_i + \beta_5 MTN_i + \beta_6 MTK_i + e_i$$

where

TCDN: represents the dependent variable (the success of startup—TCDN);

$KN, MQH, NL, SP, MTN, MTK$: represent the independent variables;

$\beta_0, \beta_1, \beta_2, \beta_k$: represent the regression coefficients;

e_i : represents the error of the model, the disturbance term.

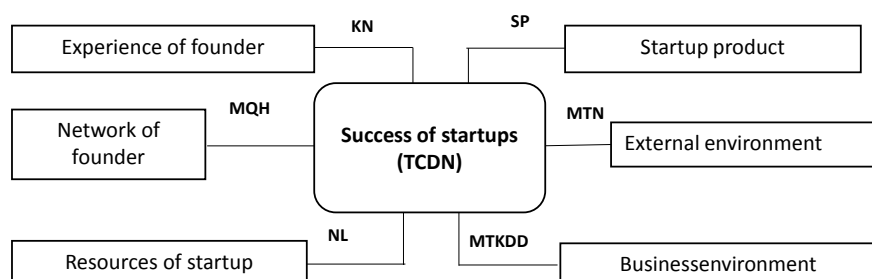


Figure 1. Proposed research model. Source: Authors (2019).

3.2. Survey Design and Selection of Scales

The questions of each factor are designed based on the reference from the research of Lussier (1995), Benzing et al. (2009), Lussier and Hyder (2016), Da Silva (2016). After preliminary research, conducting trial interviews with 30 founders, the factors in the model are showed in **Table 1**. Specific sets of observations measured on a 5-point Likert (1—strongly disagree; 2—disagree; 3—disagree; 4—agree; 5—strongly agree). After the preliminary study, the study made specific adjustments and additions via **Table 1**.

Table 1. A scale of factors affecting the success of a startup.

Variable code	Observed variables
Experience of founder (KNNKN/KN)	
KN1	Industry experience
KN2	Management experience
KN3	Marketing experience
KN4	Previous start-up experience
KN5	Family experience
Network of founder (MQHNKN/MQH)	
MQH1	Having relationships with partners in the same industry
MQH2	Get support from relatives
MQH3	Relationship with public administrative agencies
MQH4	Take advantage of social relationships from family's relations
Resources of startup (NLTKCN/NL)	
NL1	Sufficient capital
NL2	Modern facilities, equipment and technology
NL3	Having enough and responsible human resources
NL4	Industrial consultants
Startup product (SPKN/SP)	
SP1	Differentiated products in the market
SP2	Products use new materials
SP3	Products meet the needs of customers
SP4	Typical local products
External environment (MTBN/MTN)	
MTN1	Get support from a startup community
MTN2	Stable political situation, the laws are clearly defined, the government performs well the role of regulating the macro economy
MTN3	High growth rate. Interest rates and tax rates are suitable for the business
MTN4	The introduction and development of new technologies create favorable conditions for businesses and force them to innovate technologies to enhance their competitiveness

Continued

MTN5	Natural resources of raw materials, energy, and natural conditions ensure production and business activities
Business environment (MTKDN/MTKD)	
MTKD1	Get promptly support from the suppliers
MTKD2	Predict the actions of competitors
MTKD3	Accurately forecast the needs and tastes of consumers
MTKD4	Get support from industry associations

Source: Authors (2019).

3.3. Select the Sample and Data Collection Method

The measurement model consists of 26 observed variables, according to the minimum rule of Bentler & Chou (1987) for a measurement variable: $5 \times 3 = 15$ samples, so the initial number of calculated samples is 390 (26×15). The study has determined that the number of survey samples from 390 or more is a reliable, in order to ensure this sample size, the author issues 450 questionnaires in Quang Binh province. After removing the response that does not meet the requirements and cleaning the data, the remaining samples are 390.

3.4. Methods of Data Analysis

The study uses SPSS 16.0 software to analysis with following steps:

- *Descriptive statistical method*: Using frequency tables to classify the sample according to classification variables.
- *Test the reliability of the scale*: To test the reliability of the assumptions scale research, common methods used Cronbach's alpha coefficient. The Cronbach's Alpha coefficient shows the intrinsic consistency of the observed variables in the factor. The formula for Cronbach's alpha coefficient is: $\alpha = Np/[1 + p(N - 1)]$. The selection criteria in this study are the Cronbach's Alpha coefficient greater than or equal to 0.6 is acceptable. Cronbach's alpha calculations help analysts eliminate inappropriate variables and limit spam variables during research.
- *Explore factor analysis (EFA)*: Use discovery factor analysis (EFA) to test the convergence of conceptual component variables. Variables with a single correlation coefficient between variables and factor loading less than 0.5 will be excluded; Use discovery factor analysis (CFA) to shrink and summarize data. Standards when analyzing factors discover coefficient Myer-Kaiser-Olkin (KMO) measure the adequacy of the sample and the significant meaning of accreditation Bartlett. KMO has an appropriate value within [0.5; 1].
- *Confirming factor analysis (CFA)*: To measure the suitability of the model with market information, this study uses Chi-square (CMIN); Chi-square adjusted according to degrees of freedom (CMIN/df); Comparative Fit Index (CFI). Tucker & Lewis Index (TLI); Root Mean Square Error Approximation

(RMSEA). The model is considered suitable for market data when Chi-square test has P -value < 0.05 . The CFA method is used to reaffirm the univariate, multivariate, convergent and distinguishing values.

Also using the method of testing the suitability of the theoretical model by SEM; model estimation test by BOOSTRAP analysis and structural regression testing.

4. Results and Discussion

4.1. Sample Characteristics

The sample size is 390, with a 5-point Likert scale results in Skewness and Kurtosis values of the distribution variables in the range $[-1, +1]$, so the distribution is close to the standard and the estimation method amount of ML (Maximum Likelihood) is accepted for use. With a Likert 5 interval (from 1: strongly disagree to 5: strongly agree). Regarding to age, the survey samples have an unequal division among age groups, people surveyed are most concentrated in the age group from 25 to 36 years old, accounting for 63.7% and the lowest is the group of people under 25 years old accounting for 1.3%. 60.5% of entrepreneurs surveyed identified themselves as male, and 39.5% as female. Regarding to marital status, the majority are married, accounting for 69.4% and single accounting for 30.6%. Regarding to education, 51.6% of the respondents completed college and university, 5.1% of respondents did not graduated from high school.

4.2. Test the Reliability of the Scale

Conducting the reliability test of the scale shows that *External environment* is measured by 5 factors from MTN1 - MTN5 with Cronbach's Alpha coefficient = $0.773 > 0.6$, Coefficient of correlation of total variables > 0.4 except MTN5 variable has a correlation coefficient of total $0.163 < 0.4$. Cronbach Alpha coefficient if MTN5 is deleted = 0.853 , thus MTN5 should be excluded from the scale. After eliminating MTN5 variable, Cronbach Alpha coefficient > 0.6 , the observed variables have a Coefficient of correlation of total variables > 0.4 so the scale achieves reliability for the next study.

Business environment is measured by 4 factors from MTKD1 - MTKD4 with Cronbach's Alpha coefficient = $0.647 > 0.6$, Coefficient of correlation of total variables > 0.4 except variable MTKD4 with variable correlation coefficient is $0.256 < 0.4$. Cronbach Alpha coefficient if the variable MTKD4 is deleted = 0.703 , thus, MTKD4 should be excluded from the scale. The scale of *business environment* includes variables MTKD1, MTKD2, MTKD3 with Cronbach's Alpha coefficient > 0.6 , observed variables with Coefficient of correlation of total variables > 0.4 , so the scale achieves reliability for the next study.

Thus, the results of the reliability analysis of the scale have removed two variables (because the coefficient correlation to the total variable is less than 0.4), the remaining 24 variables are included in the EFA analysis, the scale compo-

nents have Cronbach's alpha coefficient > 0.6.

4.3. Explore Factor Analysis

Using factor analysis by SPSS 16.0 for EFA results as follows: MTKD3 component with a Factor Loading less than 0.5 should be excluded. The *business environment* scale has the remaining 2 observed variables, MTKD1 and MTKD2.

4.4. Confirming Factor Analysis (CFA)

The results of using AMOS 20 software to conduct CFA analysis test the suitability of the theoretical model and test the hypotheses as follows.

4.4.1. Test the Suitability of Model

The results of CFA test by AMOS 20 software (**Figure 2**) follow the principle of adjusting relationships with $MI > 4$ (MI-Modification Indice, which is the adjustment coefficient corresponding to the change of χ^2 on a degree of freedom) but this adjustment must ensure the theoretical basis and implies the practical meaning. After making the adjustment, the CFA results show that the indicators evaluating the suitability of model have been significantly improved as shown below ($\chi^2/df = 1.596$; GFI = 0.884; TLI = 0.933; CFI = 0.943; RMSEA = 0.052). Therefore, this model is suitable for the survey data.

4.4.2. Test Estimation Model by BOOTSTRAP Analysis

To assess the sustainability of model, Bootstrap analysis is used. This is an alternative sampling method with an incremental sampling ($N = 390$), in which the initial sample plays a crowd role (Schumacker & Lomax, 1996). The number of replicate samples in the study was $B = 1500$ times, the estimated results with B times from N samples were averaged and this value tended to be close to the overall estimate. The bias of the estimate (bias) and its standard deviation are small and stable value which allows it to be concluded that the ML estimates applied in the model are reliable and could be used for further hypothesis tests.

4.5. Testing Regression Structure Model

As results of the analysis show in **Table 2**, all observed variables are significant in the scale of Standardized Regression Weights which are greater than 0.5.

Test of convergent validity, discriminant validity and reliability: As can be seen from **Table 3**, all CR values are greater than 0.7 so the reliability of the scale is guaranteed. All AVE values are greater than 0.5 so convergent validity is guaranteed. All MSV values are smaller than AVE, SQRTAVE values are larger than all Inter-Construct Correlations so that discriminant validity is guaranteed.

4.6. ANOVA Analysis

Marital status: With Sig. = 0.648 (>0.05) so there is no difference in the success of a startup when the entrepreneur is married.

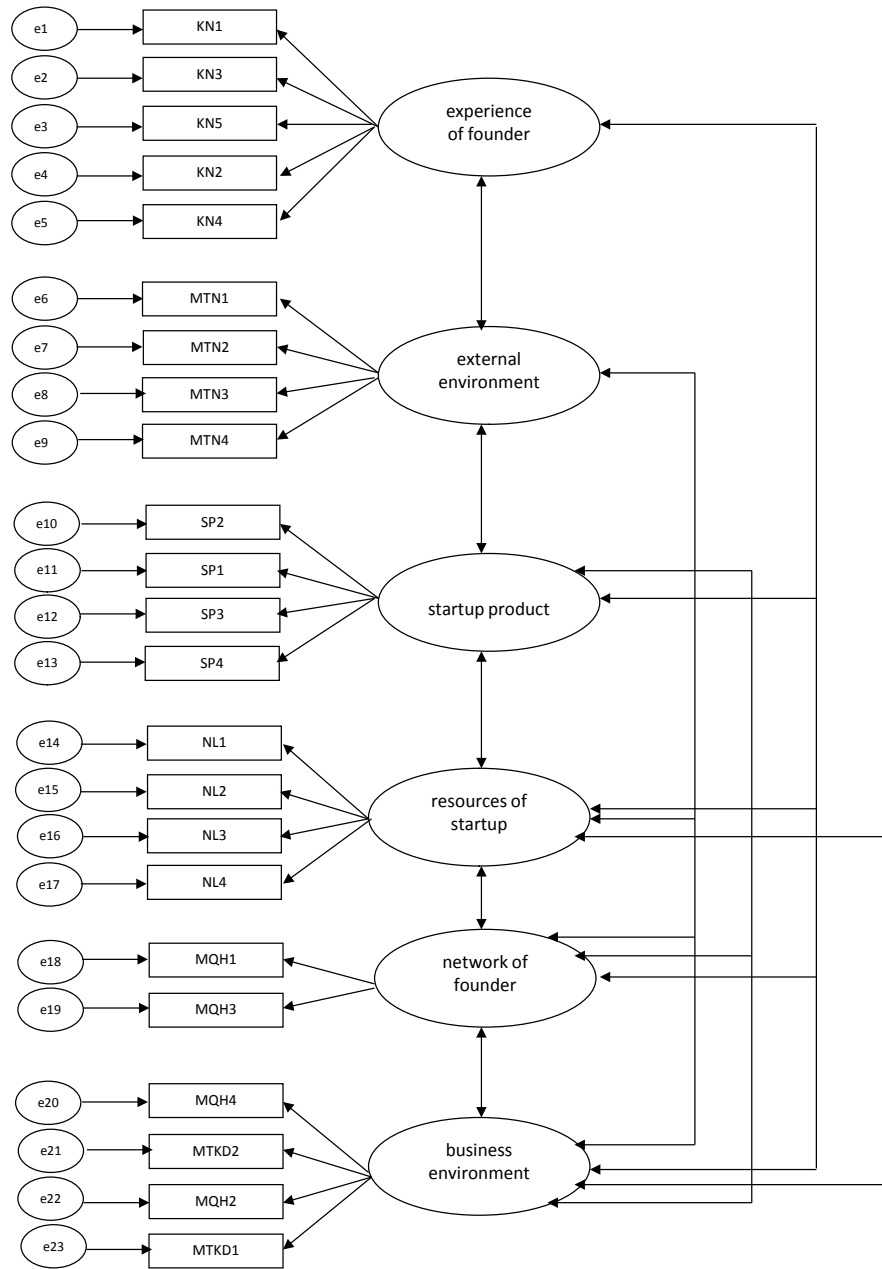


Figure 2. Standardized confirmatory factor analysis (CFA). Source: Survey data (2019).

Table 2. Results of confirmatory factor analysis.

	Estimate		Estimate
KN1 <-- experience of founder	0.792	SP4 <-- startup product	0.719
KN3 <-- experience of founder	0.753	NL1 <-- resources of startup	0.729
KN5 <-- experience of founder	0.751	NL2 <-- resources of startup	0.633
KN2 <-- experience of founder	0.666	NL3 <-- resources of startup	0.708
KN4 <-- experience of founder	0.655	NL4 <-- resources of startup	0.661
MTN1 <-- external environment	0.828	MQH1 <-- network of founder	0.775

Continued

MTN2	<--	external environment	0.780	MQH3	<--	network of founder	0.783
MTN3	<--	external environment	0.764	MQH4	<--	network of founder	0.738
MTN4	<--	external environment	0.722	MQH2	<--	network of founder	0.673
SP2	<--	startup product	0.751	MTKD1	<--	business environment	0.708
SP1	<--	startup product	0.772	MTKD2	<--	business environment	0.710
SP3	<--	startup product	0.758				

Source: Survey data (2019).

Table 3. Test results of convergent validity, discriminant validity and reliability.

	CR	AVE	MSV	ASV
network of founder	0.755	0.607	0.428	0.289
experience of founder	0.847	0.526	0.444	0.319
external environment	0.857	0.600	0.420	0.328
startup product	0.837	0.563	0.552	0.370
resources of startup	0.778	0.568	0.554	0.283
business environment	0.800	0.501	0.452	0.460

Source: Survey data (2019).

Gender: Sig. = 0.023 (<0.05), there should be a difference in the success of startup businesses between different gender of entrepreneur.

Age: Sig. = 0.23 (<0.05), there should be a difference in the success of startup businesses between different age group.

Education: Sig. = 0.544 (>0.05) so there is no difference in the success of startup businesses between different education levels.

4.7. Discussion

The paper aims to research and build a model to evaluate the success of startups. The paper builds a theoretical model and practical research in Quang Binh province on factors affecting the success of startup businesses. Research data was collected through a survey of 450 entrepreneurs and collected 390 valid samples. The scales for factors affecting the success of startups are built on a theoretical basis and are developed to suit the context of economic conditions in Quang Binh province, Vietnam.

The results of the OLS regression model (**Table 4**) show that all six components have a positive impact on the success of startups, of which experience of founder is the largest (0.402), external environment (0.235), business environment (0.161), network of founder (0.128), startup product (0.117), and resources of startup (0.109). The overall regression model is rewritten as follows:

$$\text{TCDN} = 2.37 + 0.402\text{KN} + 0.235\text{MTN} + 0.161\text{MTKD} + 0.128\text{MQH} \\ + 0.117\text{SP} + 0.109\text{NL} + e_i$$

Table 4. Results of regression analysis in SPSS.

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	0.830 ^a	0.688	0.672	0.13562		

Model	Sum of Squares	df	Mean Square	F	Sig.	
1	Regression	154.377	6	25.729	1.399E3	0.000 ^a
	Residual	7.044	384	0.018		
	Total	161.421	390			

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics		
	B	Std. Error	Beta			Tolerance	VIF	
(Constant)	2.370	2.047		3.510	0.002			
KN	0.402	0.013	0.612	6.117	0.007	0.569	1.759	
MTN	0.235	0.017	0.402	7.318	0.000	0.321	1.114	
1	MTKD	0.161	0.016	0.757	2.727	0.000	0.618	1.619
	MQH	0.128	0.012	0.267	6.402	0.008	0.602	1.660
	SP	0.117	0.013	0.273	1.787	0.000	0.307	1.259
	NL	0.109	0.015	0.239	1.573	0.006	0.427	1.340

Source: Survey data (2019).

5. Conclusion

We research and build a model to evaluate the success of startup that plays an important role in the formation of startups, managing startups to success in Quang Binh and in Vietnam. The paper has systematized the theoretical basis and research to evaluate the success of startups; identify the factors that affect the success of startups and build a model to evaluate the success of startups, and test the research hypotheses about the relationship between those factors. The results of assessing factors affect the success of startups in Quang Binh show that there are 6 factors that influence the success of startups: experience of founder, external environment, business environment, network of founder, startup products and resources of startup. The research results show that entrepreneur's experience has the greatest impact on the success of startup businesses in Quang Binh province, this is similar to the research results of other studies. Human resources and capital have been assessed by previous studies as having a great influence on the success/failure of startups, however, for the case study of Quang Binh province, resources of startup still have an impact on the success of startup, but the lowest. With the high rate of startup failure in Vietnam, results of this study provide a list of variables that contribute to the success of startup. Firms that focus on these important factors will increase their odds of success. Thus, to improve the operational efficiency of startups requires business managers to

regularly accumulate their own experience. Government agencies and policy makers should take measures to improve their capacity, train human resources and provide legal support for startup. The ANOVA analysis also provides some information, such as the difference in startup success by age and gender; there is no difference in the success of start-ups in terms of marriage status and education level; this is very useful for managers, policy makers in the future.

Conflicts of Interest

The authors declare no conflicts of interest regarding the publication of this paper.

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