Quest Journals Journal of Research in Business and Management Volume 10 ~ Issue 2 (2022) pp: 08-13 ISSN(Online):2347-3002

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Research Paper

Analysis of the Relationship between Resource-Based View and Knowledge Management with Firm Performance

Hendi¹, Yuswar Zainul Basri², Willy Arafah³

¹Corresponding Author and Doctoral Candidate of Strategic Management, Faculty of Economics, Universitas Internasional Batam, Batam, Indonesia.

²Professor of Sustainability Development Management, Faculty of Economics and Business, Universitas Trisakti, Jakarta, Indonesia.

³Senior Lecturer, Faculty of Economics and Business, Universitas Trisakti, Jakarta, Indonesia.

Abstract-This study aims to analyze how startup businesses make strategic management policies with a resource-based view and knowledge management in improving company performance. The data analysis method used in this study is the Structural Equation Model (SEM) based on Partial Least Square (PLS) to test all hypotheses. The object of this research is 164 startup businesses operating in Sumatra based on the Mapping Database of Startup Indonesia in 2021. The results show that integrating the resource dimension for resource-based views and knowledge management has a significant positive effect on company performance. Meanwhile, the resource reconfiguration dimension for the resource-based view has no significant effect on company performance. The research model tested empirically in this study can provide a thorough understanding for practitioners and academics in analyzing the topic of management strategy.

Index Terms- resource-based view, knowledge management, firm performance

Received 09 Feb, 2022; Revised 20 Feb, 2022; Accepted 23 Feb, 2022 © The author(s) 2022. Published with open access at www.questjournals.org

I. Introduction

The government's strategy has always been to encourage the development of new industrial sectors so that they do not only focus on traditional industries, which mainly refer to labour-intensive, manufacturing, and processing industries. Emerging industries are the key to determining a country's core competencies; at the same time, it is also the core of the implementation of national strategies such as the United States Internet, Germany's Industry 4.0, and China's 2025 (Ma, Sun, Gao, & Gao, 2019). Developing industries can be grouped into seven industries: energy-saving and environmental protection, new-generation information technology, biology or biotechnology, high-end equipment manufacturing, new energy, new materials, and new energy vehicles (Prud'homme, 2016). Companies in emerging industries face more resource utilization and integration challenges due to the characteristics of short technology upgrade cycles, unclear market structures, and uncertain customer demands.

The Indonesian government has explicitly stated its encouragement to make Indonesia one of the countries with the largest digital industrial power, with a vision of Indonesia as The Digital Energy of Asia. The strategy it implements is a technology-based startup business. The company is categorized as a startup business by meeting several characteristics: the company's age is less than three years, the number of employees is less than 20 people, it is still in the development stage, generally operates in technology and websites. Startup businesses in Indonesia can be classified into content creators, fintech, e-commerce, edutech, healthtech, digital tourism, and others (MIKTI dan Teknopreneur Indonesia, 2021). In addition, the development of a creative industry centre as an Innovation Hub and Digital Innovation Lounge from Telkom.

To survive in the competition and generate profits, the startup business as a growing industry must carry out strategic management. One strategic management is the resource-based view, an approach with capability and resources as the primary competitive sources in the industry where they compete. The approach is in the form of different grouping assets, both tangible and intangible, and the capabilities that determine the efficiency and effectiveness of the company's activities. The resource-based view perspective states that

companies in an industry can develop different resources and capabilities to create competitive advantages that enable the development and improvement of company performance in the short and long term(Ferreira & Fernandes, 2017). The company's resource management strategy has also begun to emphasize resource integration and reconfiguration as an essential concern in the resource-based view theory as an essential skill for company development (Ma et al., 2019).

Knowledge management processes based on a knowledge-based view and resource-based view will generate knowledge, store knowledge, share knowledge and apply the knowledge supported by identifying knowledge and formulating goals in every aspect of the organization (Mahdi, Nassar, & Almsafir, 2019). Furthermore, knowledge management is essential for top management in determining organizational strategies that affect firm performance (Muthuveloo, Shanmugam, & Teoh, 2017; Orga, Nnadi, & Chioma, 2018), so it is essential to explore the relationship between resource-based view and knowledge management with firm performance for startup businesses in Indonesia.

II. Literature Review and Hypothesis Development

Firm performance is the company's ability to gain financial benefits from innovation in a particular market. In the resource-based view theory, firm performance usually refers to profit, which generally describes the residual income generated by the company after paying costs for the resources and capabilities used to generate that income (Ma et al., 2019). However, it can also describe other financial performance measures such as return on investment, cost-benefit, and budget impact (Holdford, 2018). Firm performance measurement can be done with two approaches, namely market performance and financial performance. Based on signalling theory, the company's financial performance will show the company's current condition and future growth potential (Wijayanto, Suhadak, Dzulkirom, & Nuzula, 2019). Companies must advance the understanding of current and future information systems by applying a resource-based view internally to drive company performance (Gupta, Tan, Ee, & Phang, 2018). Orga et al., (2018) stated that strategic knowledge can increase company activities that result in competitive advantage, which impacts increasing sales growth. Puryantini & Arfati, (2017) revealed that innovation is a mediating variable in knowledge management and firm performance. Management in knowledge creation, especially tacit knowledge, is essential for top management in improving organizational performance (Muthuveloo et al., 2017).

The Effect of Resource-Based View on Firm Performance

Resources and competencies have an influence on firm performance (Holdford, 2018). Resources are an important driving force for companies to get firm performance (Davcik & Sharma, 2016). The progress of understanding current and future information systems is an internal company resource so that the resource-based view of information systems can be a driving factor for company performance (Gupta et al., 2018). Resource-based view with VRIN resources (Valuable, Rare, Inimitable, Non-substitutable) has a significant positive effect on increasing company performance (Adnan, Abdulhamid, & Sohail, 2018; Pearson, Pitfield, & Ryley, 2015). The development of resource-based view cloud shows that when the information management infrastructure is changed, it results in cost savings and efficiencies that lead to sustainable company growth(Mitra, Regan, & Sarpong, 2017). The effectiveness of the resource-based view theory with two resource management methods, namely resource integration and resource reconfiguration (Ma et al., 2019). Based on the results of previous studies, the following hypotheses can be formulated:

H₁: resource integration has a significant positive effect on firm performance.

 H_2 : resource reconfiguration has a significant positive effect on firm performance.

The Effect of Knowledge Management on Firm Performance

Knowledge has been considered a strategic resource that needs to be managed to generate competitive performance. Therefore, management will expect the company to be successful by exploiting knowledge assets methodically(Bolisani & Bratianu, 2017). Knowledge management of knowledge assets owned by the organization can positively improve company performance (Torres, Ferraz, & Santos-Rodrigues, 2018). Increasing employee knowledge directly increases the company's sales growth (Orga et al., 2018). Knowledge management directly affects company performance, while innovation does not play a role in the relationship of knowledge management to organizational performance (Puryantini & Arfati, 2017). Tacit knowledge management significantly influences organizational performance (Muthuveloo et al., 2017). Based on the results of previous studies, the following hypotheses can be formulated:

H₃: Knowledge management has a significant positive effect on firm performance.

Figure 1 below is a chart of the conceptual framework of this research. This conceptual framework illustrates the influence of the independent variable on the dependent variable with a sample of startup businesses in Indonesia.

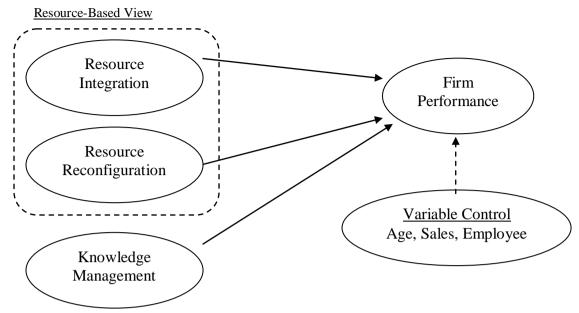


Figure 1. Conceptual Framework

III. Research Methodology

This research is explanatory research, which aims to explain the influence between research variables through hypothesis testing based on field data (Sekaran & Bougie, 2016). The variables in this study are resource integration, resource reconfiguration, knowledge management, and firm performance. The population of this research is a startup business in Sumatra. The population of startup businesses in Sumatra is determined based on data from Mapping and the Startup Indonesia Database in 2021. The primary data collection method in this study was conducted through a questionnaire. The instrument used in this research is a questionnaire that fits the research criteria. The following variables will be explained operationally in this study, among others:

- Firm performance is operationalized through management's perception of the main performance categories, namely marketing, sales growth, profitability and market share (Ferreira & Fernandes, 2017).
- Resource-based view is determined by two resource management methods, namely resource integration and resource reconfiguration. Resource integration is operationalized through management's perception of the company's emphasis on the use of different resources. Resource reconfiguration is operationalized through management's perception of the development of organizational routines on the resource structure, according to the following dimensions: improvement and creation (Ma et al., 2019).
- Knowledge management is operationalized through management's perception of resource management with the following dimensions: intellectual capital, information systems, and processes (Torres et al., 2018). The analytical method used is Structural Equation Modeling (SEM) based on Partial Least Square (PLS). The PLS-SEM model can be evaluated by assessing the outer and inner models. Evaluation of the outer model can be done through confirmatory factor analysis, namely, testing the validity and reliability of the items forming the latent construct. The evaluation of the inner model is done by testing the significance to test the effect between constructs or variables (Ghozali & Latan, 2017).

IV. Results and Discussions

The population in this study are all startup business leaders in Sumatra. The total number of questionnaires distributed in this study amounted to 180 questionnaires. The questionnaires that were received back were 164 questionnaires with a response rate of 91.11%. The validity test results after the loading factors were issued that did not meet the requirements were valid were all loading factors were more than 0.60, and the AVE was more than 0.50. The reliability test results showed that the value of Cronbach's Alpha and Composite Reliability was more than 0.60, so it was declared reliable. Based on testing the validity and reliability, the measurement model can be continued to test the structural model. Data on startup business characteristics and respondent demographics from the questionnaire will be presented in the following descriptive statistics:

Table 1. Descriptive Analysis

Distributed Questionnaire	Number of Respondents		
Distributed questionnaire	180		
Questionnaire that doest not return	16		
Questionnaire used in the analysis	164		

Respondent data based on domicile:	Domicile	Amount	Percentage	
	Medan	49	29,88%	
	Pekanbaru	46	28,05%	
	Banda Aceh	32	19,51%	
	Padang	16	9,76%	
	Palembang	14	8,54%	
	Batam	5	3,05%	
	Bengkulu	1	0,61%	
	Jambi	1	0,61%	
	Total	164		
Respondent data based on the type of business entity:	Type of Business Entity	Amount	Percentage	
	Corporate	68	41,46%	
	Partnership	12	7,32%	
	Private	84	51,22%	
	Total	164	100,00%	
Respondent data based on businees sector:	Business Sector	Amount	Percentage	
	E-Commerce	24	14,63%	
	Content Creator	20	12,20%	
	Edutech	16	9,76%	
	Media	13	7,93%	
	Digital Logistic	8	4,88%	
	Fintech	7	4,27%	
	Healthtech	7	4,27%	
	Game Developer	6	3,66%	
	Digital Tourism	5	3,05%	
	Agrotech	3	1,83%	
	General	55		
	Total	164		
Respondent data based on business age:	Business Age	Amount	Percentage	
•	Less than 1 year	95	57,93%	
	1 to 2 years	52		
	2 to 3 years	12	7,32%	
	More than 3 years	5		
	Total	164		
Respondent data based on sales:	Sales	Amount	Percentage	
•	Less than IDR 300 million	38	23,17%	
	IDR 300 million to IDR 2.5 billion	97	59,15%	
	More than IDR 2.5 billion	29	17,68%	
	Total	164		
Respondent data based on number of employees:	Employees	Amount	Percentage	
-	Less than 5 people	38	23,17%	
	5 people to 15 people	97	59,15%	
	More than 15 people	29		
	Total	164		
Respondent data by gender:	Gender		Percentage	
	Male	154		
	Female	10		
	Total	164		

Respondent data by age:	Age	e	Amount	Percentage
	21	to 30 years old	3	1,83%
	31	31 to 40 years old		90,24%
	41 to 50 years old 51 to 60 years old Over 60 years old Total		13	7,93% 0,00%
			-	
			-	0,00%
			164	100,00%
Respondent data based on education level:	Edu	ucation Level	Amount	Percentage
	Ser	Senior High School		1,22%
	Diploma		-	0,00%
	Bac	Bachelor		92,07%
	Master		10	6,10%
	Doe	ctor	-	0,00%
	Other		1	0,61%
	Total		164	100,00%
Variable Characteristics:	Variable	Dimension	Mean	Std. Deviation
	Resource Inte	Resource Integration		0,917
	Resource Reconfiguration		4,166	0,844
	Improvement		4,244	0,682
	Creation		4,140	0,898
	Knowledge N	lanagement (4,289	0,768
	Intellectual Capital		4,218	0,776
	Information Systems		4,278	0,763
	Pro	cesses	4,409	0,762
	Firm Performance		4,015	0,851

Based on the Goodness of Fit Model test results, firm performance has a moderate model with an Adjusted R-Square value of 0.424. The results of the path coefficients, T-Statistics, and P-Values values obtained through the bootstrapping process are as follows:

Table 2. Hypothesis Test Results

Variable	Coefficient	T-Statistics	P-Value	Result	Conclusion
Resource Integration	0.224	2.993	0.001	Significant	H ₁ : Accepted
Resource Reconfiguration	0.059	0.675	0.250	Not Significant	H ₂ : Rejected
Knowledge Management	0.457	5.803	0.000	Significant	H ₃ : Accepted

Based on the results of hypothesis testing in Table 2 above, hypothesis one (H_1) and hypothesis three (H_3) can be accepted. These results can be concluded that the dimensions of a resource-based view with resource integration and knowledge management significantly affect firm performance. These results are consistent with Adnan et al., (2018), Bolisani & Bratianu, (2017), Davcik & Sharma, (2016), Gupta et al., (2018), Ma et al., (2019), Mitra et al., (2017), Muthuveloo et al., (2017), Orga et al., (2018), Pearson et al., (2015), Puryantini & Arfati, (2017), Torres et al., (2018).

The results of hypothesis testing in Table 2 above also show that hypothesis two (H_2) is rejected. These results can be concluded that the dimension of resource-based view with resource reconfiguration has no significant effect on firm performance. These results are inconsistent with Bolisani & Bratianu, (2017), Muthuveloo et al., (2017), Orga et al., (2018), Puryantini & Arfati, (2017), Torres et al., (2018).

V. Conclusions and Implications

Applying resource-based views and knowledge management in startup businesses can positively improve firm performance. The study results show that the startup business by applying the resource integration method in a resource-based view and knowledge management has a significant positive effect on firm performance. On the other hand, the resource reconfiguration method in the resource-based view has no significant effect on improving firm performance.

The implication is that startup businesses using new resources to enter new markets will generate more profits as an assessment of firm performance. In addition, startup businesses with limited employees will focus more on creating uniqueness in generating profits. However, improving and creating standard organizational processes in resource reconfiguration is not significant in improving firm performance.

Reference

- [1]. Adnan, M., Abdulhamid, T., & Sohail, B. (2018). Predicting Firm Performance through Resource Based Framework. *European Journal of Business and Management*, 10(1), 31–40.
- [2]. Bolisani, E., & Bratianu, C. (2017). Knowledge strategy planning: an integrated approach to manage uncertainty, turbulence, and dynamics. *Journal of Knowledge Management*, 21(2), 233–253. https://doi.org/10.1108/JKM-02-2016-0071
- [3]. Davcik, N. S., & Sharma, P. (2016). Marketing resources, performance, and competitive advantage: A review and future research directions. *Journal of Business Research*, 69(12), 5547–5552. https://doi.org/10.1016/j.jbusres.2016.04.169
- [4]. Ferreira, J., & Fernandes, C. (2017). Resources and capabilities' effects on firm performance: what are they? *Journal of Knowledge Management*, 21(5), 1202–1217. https://doi.org/10.1108/JKM-03-2017-0099
- [5]. Ghozali, I., & Latan, H. (2017). Partial Least Squares: Konsep, Teknik dan Aplikasi Menggunakan Program SmartPLS 3.0 untuk Penelitian Empiris (3rd ed.). Semarang: Diponegoro University Press.
- [6]. Gupta, G., Tan, K. T. L., Ee, Y. S., & Phang, C. S. C. (2018). Resource-Based View of Information Systems: Sustainable and Transient Competitive Advantage Perspectives. Australian Journal of Information Systems, 22, 1–10. https://doi.org/http://dx.doi.org/10.3127/ajis.v22i0.1657
- [7]. Holdford, D. A. (2018). Resource-based theory of competitive advantage a framework for pharmacy practice innovation research. Pharmacy Practice, 16(3), 1–11. https://doi.org/https://dx.doi.org/10.18549%2FPharmPract.2018.03.1351
- [8]. Ma, H., Sun, Q., Gao, Y., & Gao, Y. (2019). Resource Integration, Reconfiguration, and Sustainable Competitive Advantages: The Differences between Traditional and Emerging Industries. *Sustainability*, 11(551), 1–20. https://doi.org/10.3390/su11020551
- [9]. Mahdi, O. R., Nassar, I. A., & Almsafir, M. K. (2019). Knowledge management processes and sustainable competitive advantage: An empirical examination in private universities. *Journal of Business Research*, 94, 320–334. https://doi.org/10.1016/j.jbusres.2018.02.013
- [10]. MIKTI dan Teknopreneur Indonesia. (2021). Mapping dan database startup Indonesia 2021. MIKTI dan Teknopreneur Indonesia.
- [11]. Mitra, A., Regan, N. O., & Sarpong, D. (2017). Cloud Resource Adaptation: A Resource Based Perspective on Value Creation for Corporate Growth. *Technological Forecasting & Social Change*, 130, 28–38. https://doi.org/10.1016/j.techfore.2017.08.012
- [12]. Muthuveloo, R., Shanmugam, N., & Teoh, A. P. (2017). The impact of tacit knowledge management on organizational performance: Evidence from Malaysia. *Asia Pacific Management Review*, 22(4), 192–201. https://doi.org/10.1016/j.apmrv.2017.07.010
- [13]. Orga, J. I., Nnadi, C. S., & Chioma, E. N. (2018). The Role of Knowledge Management on the Competitive Advantage of Food and Beverage Firms in South East Nigeria. Scholars Journal of Economics, Business and Management, 5(7), 612–622. https://doi.org/10.21276/sjebm.2018.5.7.8
- [14]. Pearson, J., Pitfield, D., & Ryley, T. (2015). Intangible resources of competitive advantage: Analysis of 49 Asian airlines across three business models. *Journal of Air Transport Management*, 47, 179–189. https://doi.org/10.1016/j.jairtraman.2015.06.002
- [15]. Prud'homme, D. (2016). Dynamics of China's provincial-level specialization in strategic emerging industries. Research Policy, 45(2016), 1586–1603. https://doi.org/10.1016/j.respol.2016.03.022
- [16]. Puryantini, N., & Arfati, R. (2017). Pengaruh Knowledge Management Terhadap Kinerja Organisasi Dimediasi Inovasi di Organisasi Penelitian Pemerintah. *Berkala Akuntansi Dan Keuangan Indonesia*, 2(2), 21–38.
- [17]. Sekaran, U., & Bougie, R. (2016). Research Methods for Business: A Skill-Building Approach (Seventh Ed). John Wiley & Sons Ltd.
- [18]. Torres, A. I., Ferraz, S. S., & Santos-Rodrigues, H. (2018). The Impact of Knowledge Management Factors in Organizational Sustainable Competitive Advantage. *Journal of Intellectual Capital*, 19(2), 453–472.
- [19]. Wijayanto, A., Suhadak, Dzulkirom, M., & Nuzula, N. F. (2019). the Effect of Competitive Advantage on Financial Performance and Firm Value: Evidence From Indonesian Manufacturing Companies. Russian Journal of Agricultural and Socio-Economic Sciences, 85(1), 35–44. https://doi.org/10.18551/rjoas.2019-01.04