

Leveraging Knowledge Sharing and Innovation towards Resilient Competitive Advantage: Insight From The Leaders

by I Wayan Edi Arsawan

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4 I Wayan Edi Arsawan
Department of Business Administration
Politeknik Negeri Bali
Kuta Selatan, Badung Bali, Indonesia
wayanediarsawan@pnb.ac.id

4 Putu Adriani Prayustika
Department of Business Administration
Politeknik Negeri Bali
Kuta Selatan, Badung Bali, Indonesia
adrianiprayustika@pnb.ac.id

4 I Gusti Ketut Gede
Department of Business Administration
Politeknik Negeri Bali
Kuta Selatan, Badung Bali, Indonesia
igkgede@pnb.ac.id

Ni Made Kariati
Department of Business Administration
Politeknik Negeri Bali
Kuta Selatan, Badung Bali, Indonesia
dekariati@pnb.ac.id

Putu Wijaya Sunu
Department of Mechanical Engineering
Politeknik Negeri Bali
Kuta Selatan, Badung Bali, Indonesia
wijayasunu@pnb.ac.id

I Nyoman Eddy Indrayana
Department of Electrical Engineering
Politeknik Negeri Bali
Kuta Selatan, Badung Bali, Indonesia
eddyindrayana@pnb.ac.id

Abstract—The role of knowledge sharing has been tested and explored in various empirical studies related to organizations. However, research that explores knowledge sharing in building innovation and explores the role of **6** innovation comprehensively is still rare in the SME sector. The purpose of this study was to examine and explain the relationship between knowledge sharing in building innovation to build a resilient competitive advantage. This study used a quantitative design involving 118 respondents from 59 sample frames consisting of management levels, namely assistant and managers of SMEs Export in Bali Province, Indonesia. The questionnaire uses a Likert scale and the data is processed with SmartPLS 3.0 software. The results showed that knowledge sharing has a significant effect on innovation and resilient competitive advantage and innovation as mediator. Theoretically, this research provides insight into the body of knowledge. Practically, research is concerned with the recognition of intellectual capital in the organization. The limitations of the study are discussed in the paper

Keywords— *knowledge sharing; innovation; SEM; business performance, resilient competitive advantage*

I. INTRODUCTION

The competitive advantage has caught the attention of many researchers around the world, has been tested involving various variables, but cannot be fully explained clearly. Competitive advantage plays a crucial role in the sustainability and success of SMEs [1] by innovating [2], especially innovative entrepreneurship, technological changes, and

market uncertainty [3]. The failure rate of SMEs is high in both developing and developed countries [1].

Building a competitive advantage through optimizing knowledge sharing contribution [4] as the key factor of innovation [5], and crucial driver to creating values [6]; [7], especially for small and medium enterprises [8]. Although most empirical research has been conducted, the SME sector still needs to be investigated [9]. Thus, the researchers point to a lack of studies that comprehensively explore innovation in the SME sector.

An organization has a competitive advantage when implementing a strategy of value creation than competitors [10] and cannot duplicate strategies [11]. Unique resource ownership causes companies to outperform competitors, as the main source of resilient competitive advantage [12].

This study tries to close the research gap, namely; first, a resilient competitive advantage cannot be explained in a conceptual framework [13]. Second, innovation research in SMEs is still rarely conducted and must be carried out in a sustainable manner [14]; [15]. Third, the research on innovation in the SME sector [16] is to develop and understand innovation both theoretical and applied [17]. Thus, this research need attention to understand a better analysis in for Indonesian SMEs.

II. LITERATURE REVIEWS

A. Knowledge Sharing

Knowledge management dimensions are important in knowledge sharing which is referred to as a complex activity [18] which generates new ideas [19] in increasing knowledge assets. The importance of sharing knowledge is expanding networks, opportunities, and enhancing processes and improve both products or services [20]. Knowledge sharing will be a success with the involvement of individuals that increase creativity and accelerate innovation [21].

B. Innovation

Many scholars said that innovation is a key instrument for facing a uncertain business environment [7] that recognize innovation is very crucial in a complex environment [22];[23] and important in determining sustainability role in success and survival [24].

C. Resilient Competitive Advantage (RCA)

A resilient competitive advantage occurs when other companies are unable to replicate the competitive advantage. Organizations are expected to focus on different strategy, enhance service delivery, and hiring high quality manpower [18] to achieve performance [25]. Resilient competitive advantage achieved through effective strategy [26] namely; leadership, organizational culture, team-based structure, and human capital and control management [13] ..

D. Hypothesis Development

Knowledge management builds an innovation in shaping the business innovation model and capability [27] and competitive advantage [28]. Specifically, knowledge sharing builds a strong relationship with innovation [21] and has a significant effect on innovation [29]; [30]; [31]. Based on this, the hypothesis can be formulated as follows;

H1: Knowledge sharing has a significant effect on innovation

Knowledge sharing forms a new knowledge [32]; [31] increasing knowledge sources [34] through collaboration and creation [33] and has a significant positive effect on competitive advantage [18] because knowledge-based assets are key success of resilient competitive advantage [28].

H2: Knowledge sharing has a significant effect on resilient competitive advantage

Innovation develop of new products, processes, and added value [35]. Competitive advantage refers that organization has resources and capabilities [36] capacity to adapt, respond, and detect opportunities [37] and react successfully to change [38]; [11] both in the technical and non-technical [25]. Based on this, the hypothesis can be formulated as follows. Based on this, the hypothesis can be formulated as follows;

H3: Innovation has a significant effect on resilient competitive advantage

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III. METHODOLOGY

A. Data Collection and Sampling

The population in this study were 69 export SMEs in Bali, Indonesia. Furthermore, the sample frame was selected by the simple random sampling method [39], were 59 enterprises and 2 respondents were sought each to be asked to fill out the questionnaire. The total number of respondents was 118 respondents. Unit analysis are assistant managers and managers.

B. Measures

All measurements were adopted and modified from previous studies where the construct was designed using a self-assessment report with a Likert scale 1-5 approach (1-strongly disagree to 5-strongly agree).

- Knowledge sharing is measured by four indicators, namely socialization, externalization, combination, and internalization which are adopted from [33]; [29]; [30]; [40].
- Innovation is measured by five indicators, namely organizational culture, product innovation, innovation process, innovation management, and innovation objectives [4]; [16] and [15].
- Resilient competitive advantage is measured by seven indicators, namely innovation practices, service delivery systems, growth and performance, market share [34]; [10]; [41], value, rareness, and imperfectly non-imitable [25] and [1].

IV. RESULT AND DISCUSSION

The research data were analyzed with PLS-3.0 software through evaluation of the outer model and testing of the inner model.

4.1 Outer model measurement

Measuring reliability in present study uses three measurement methods, namely convergent validity, discriminant validity, and composite reliability. The results of convergent validity use the outer loading value of each indicator is between 0.529-0.973 and meets the requirements. Discriminant validity with the AVE value is greater than 0.50. All outer loading values are above 0.50 which indicates all indicators have good discriminant validity.

4.2 Inner Model Measurement

Testing inner model uses three approaches, namely, the R2 analysis, Goodness of Fit (GoF). The calculation of Q2 and Goodness of Fit (GoF) uses the R-square coefficient (R2) to shows the model feasibility. The R2 value of 0.67 classified as a strong model, 0.33 is classified as a moderate model and 0.19 is classified as a weak model.

TABLE I. R² AND R² ADJUSTED

Latent	Coefficients		
	Remarks	R ²	Adj R ²
Innovation	Y1	0,651	0,649

Latent	Coefficients		
	Remarks	R ²	Adj R ²
Resilient Competitive Adv	Y2	0,743	0,739
Average		0,697	0,694

Based on Table 1, the value of R² innovation is 0.651, RSC is 0.743 so that the R² concluded as strong model. The average value of 0.697 means that the relationship model is explained by 69.7 percent, while the remaining 30.3 percent is explained by other variations outside the model.

The next step is to test the Q Square Predictive Relevance (Q²) by measuring how well the model observations are;

$$Q^2 = 1 - [(1-R^2y1) (1-R^2y2)]$$

$$Q^2 = 1 - [(1-0,651) (1-0,745)]$$

$$Q^2 = 1 - [(0,349) (0,225)]$$

$$Q^2 = 1 - 0,088995$$

$$Q^2 = 0,911005 \text{ (Q}^2 \text{ very good)}$$

The result of Q² shows the value of 0.911005 means that the observation model is very good, namely 91.10% the relationship between variables can be explained by the model while the remaining 8.90% is another factor that is not included in the research model. The next step is calculate the GoF.

$$\begin{aligned} \text{GoF} &= \sqrt{\text{com} \times R^2} \\ &= \sqrt{0,673 \times 0,697} \\ &= \sqrt{0,469081} \\ &= 0,68489 \end{aligned}$$

The GoF results show a value of 0.68489 which is close to 1 (one), which means that the predictive model is very fit, which means that the accuracy of the measurement of the model is very good. Furthermore, testing the effect size (f²).

4.3 Hypothesis Testing

After the outer and inner model tests, the next step is hypothesis testing which is carried out in two stages by testing the direct and indirect effect. In the output path coefficient, as shown in Table II, the direct relationship between variables is presented by looking at the value of the parameter coefficient through the original sample.

TABLE II. COEFFICIENTS OF VARIABLES

Construct	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics (O/STDEV)	P Values	Decision
KS→IC	0.803	0.810	0.014	14,000	0,000	Supported
KS→RCA	0.771	0.704	0.061	8,969	0,000	Supported
IC→RCA	0.358	0.361	0.089	2,704	0,000	Supported

KS: knowledge sharing, IC: innovation, RCA: resilient competitive advantage;

In table II, information is presented about the direct relationship between variables. The path coefficient of knowledge sharing and innovation is 14,000 > 1.96 which means significant and hypothesis 1 is accepted. The results of this study concluded that knowledge sharing plays an important role in building innovation [36] [29], and realizing innovation [41]. The results of this study also refute the

research results [21] that knowledge sharing does not contribute significantly to innovation.

The coefficient of the relationship between knowledge sharing and RCA is 8,969 > 1.96 which means significant and hypothesis 2 is accepted. This research is concluded that knowledge sharing is a source of competitive advantage [18]; [32].

The path coefficient between innovation and resilient competitive advantage is 2.704 > 1.96 which means significant and hypothesis 3 is accepted. The results of the study found that SMEs can take advantage of innovation to increase a resilient competitive advantage [46]. This means that export SMEs must be creative and innovative facing global market [41] and [42].

TABLE III. MEDIATING EFFECT TEST

Mediator*	Independent Variable-Mediator	Mediator-Dependent Variable	Direct	Indirect	Total effect	VAF (%)	Decision
KS-In-RCA	0.803	0.368	0.771	0.623841	1.002953	0.622073	Partial mediation

*KS: knowledge sharing, IC: innovation, RCA: resilient competitive advantage, VAF: Variance Accounted For

The next step is to test innovation as the mediating variable. Based on the VAF criteria which is VAF <0.20 (no mediation), 0.20-0.80 (partial mediation) and > 0.80 (full mediation) [43]. We calculated Variance Accounted For (VAF). The present study tested only one path mediator, it can be concluded that innovation partially mediates the relationship between KS and RCA where the VAF value is equal to 62.22 percent.

V. CONCLUSION

This study succeeded in closing three literature gaps, namely offering knowledge and conceptualizing new research models, that building sustainable competitive advantage cannot be explained by one model. Second, innovation is very important for SMEs and SME managers to need to innovate to be able to compete with established companies, and third, competitive advantage associated with knowledge and innovation is still rare, especially in developing countries and SMEs in Indonesia must have high innovation to successfully maintain a formidable competitive advantage.

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