



Article

The Relationship between HRM Strategies and Sustainable Competitive Advantage: Testing the Mediating Role of Strategic Agility

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Abstract: This study aims to investigate the impact of strategic agility on the relationship between Human Resources Management (HRM) strategies and Sustainable Competitive Advantage (SCA). A total of 227 large and medium-sized manufacturing companies were surveyed and studied. Using Structural Equation Modelling (SEM), this study found a positive and direct impact of HRM strategies on SCA. The study revealed a mediating effect of strategic agility on the relationship between HRM strategies and SCA. This study provides practical guidance for Yemeni large and medium-sized manufacturing companies to maintain SCA by focusing more on strategic agility in a turbulent business environment.

Keywords: human resources management strategies; strategic agility; sustainable competitive advantage; Yemen



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1. Introduction

In the recent decades, companies faced the new trend of globalization that exposed them to a rapid wave of competition and a pace of profound changes. The highly competitive environment challenges most of large- and medium-sized manufacturing companies [1]. Yemen is not an exception, as globalization enforced Yemeni manufacturing companies to face severe competition from foreign companies [2]. Foreign companies dominate the local market due to their prolonged experience and their advanced production capacity. The problem does not stop here, for the position of Yemeni manufacturing companies is even worse when they try penetrating the neighbourhood regional or global markets [3]. The problem has been shown clearly when Yemen was ranked as the 139th out of 140 countries, and therefore, it is considered one of the lowest economies according to the global competitiveness report [4]. The severe competition reduced the contribution of manufacturing industry to Yemeni Gross Domestic Product from 24% in 2010 to only 6.4% in 2015. In addition to the competition, manufacturing industry contribution was deteriorated due to their insufficient experience, inappropriate business environment, poor incentives, poor infrastructure, lack of employee training, and, as a result, lack of skilled human capital [5]. The new competition trend has created a lot of problems for the manufacturing industry in many developing countries such as Yemen [6]. These problems or challenges' roots should be discovered and solved.

Previous literature tried to prioritize the main strategies to deal with market competition. One of the main factors is the creation of SCA. The literature discussed many factors that could create SCA, such as social and technological change [7], entrepreneurial orientation and market orientation [8], investing in intangible resources and firm capabilities [9], knowledge management practices [10], marketing innovation [11], competitive intelligence [12], and total quality management [13,14]. Although there were many factors that could affect the creation of SCA, HRM was presented as the most prominent

factor [15–20]. Efficient human capital can recognize the threats, exploit opportunities, and formulate proactive strategies to cope with the challenges. Controlling such threats is essential towards achieving SCA [21].

Although the relationship between HRM and SCA is well documented in the literature, the strength and the nature of this relationship is not consistent, especially when was studied among different countries and cultures. Moreover, there is scarce research focusing on the relationship between strategic agility and SCA, particularly in Yemen. Based on the insight of Resource-Based View (RBV) theory by Barney [22] and the dynamic capabilities theory by Teece et al. [23], organizational capabilities and resources contribute to a dynamism that cannot be imitated by competitors and consequently create SCA. Hence, strategic agility is one of the most important potential factors that could moderate the relationship between HRM and SCA.

This study opens a new avenue to a more comprehensive understanding of the relationship between HRM and SCA. It is expected to increase the understanding of the interaction among HRM strategies, SCA, and strategic agility through the lens of the RBV theory and the dynamic capabilities theory. Moreover, the current study is expected to provide a practical guidance on how companies can meet the competitive challenges and how to improve their competitiveness to survive in such a resource-constrained market of least developed countries, including Yemen.

This paper is organized as follows. In the next section, we review the literature and develop the associated hypothesis. In Section 3, we describe the study's methodology. In Section 4, we conduct data analysis. In Section 5, we provide the conclusion of this research, combined with implications and suggestions for future research.

2. Theory Development and Hypotheses

2.1. Human Resources Management Strategies and Sustainable Competitive Advantage

HRM strategies are considered as a rationalised effort applied by the organizations to manage the talent pools to achieve the organizational goals. Organizations employ such strategies to form the attitude, behaviour, culture, and perception of employees in such a way that it achieves the organizational desired outcomes [24,25]. HRM strategies are critical to business success because it shapes the relationship between organizations and employees. HRM strategies help organization survive by enhancing their ability to attract, develop, motivate, and retain employees [26,27]. HRM strategies are the techniques that companies use to keep their talented employees at the right time, which help them to maintain a high level of efficient operation, to maintain continuous organizational development, and to sustain competitive advantage [28–30]. HRM strategies are pivot endeavours in creating higher performance and competitive organizations.

In the field of strategic management, SCA has been treated as one of the most important concepts that could create values for organizations. SCA could provide a long-term benefit for organizations, e.g., a company's products cannot be replicated by other companies due to superior quality, superior skills, superior capabilities, and responding to customer needs [31].

SCA could be created and maintained in many and different ways [9,31–35]. For example, Porter [36] proposed that competitive strategies could help in creating SCA though obtaining lowest cost or cost distinction positions. Moreover, Beal [37] considered that the traditional way of achieving SCA depends on the environmental structure and overall competitive strategy. Barney [22] pointed out that an organization has an SCA when it implements a value-creating strategy simultaneously with the current and future competitors. Coyne [33] argued that SCA could be achieved by exploiting the business system, position, regulatory, and quality management gaps. It also can be achieved by organization's superior skills and resources, superior efficiency, superior quality, superior innovation, and responding to customer needs [33,38]. In summary, due to the complexity and the diversity of its sources, SCA requires new thinking and strategic intelligence that differs from conventional thinking.

The contribution of HRM strategies in creating SCA was widely investigated in literature. The major trend found in literature has supported the positive impact of HRM on the creation of SCA. The conceptual model of Delery and Roumpi [39] proposed a positive relationship between HRM and SCA. In line with that, Ramadan [20] emphasized that the talent management represented by human resources, organizational resources, and financial resources positively influence SCA. Velmurugan and Akhilesh [40] also emphasised that HRM strategies impact SCA by strengthening employee skill, capability, and motivation. Moreover, this positive relationship has been studied and supported in many countries and industries such as US manufacturing and service corporations, airlines companies, and health industry [41], Greece shipping industry [42], and Korean research institutions [43].

To test the relationship between HRM strategies and SCA in context of Yemen, the following hypothesis was proposed (see Figure 1):

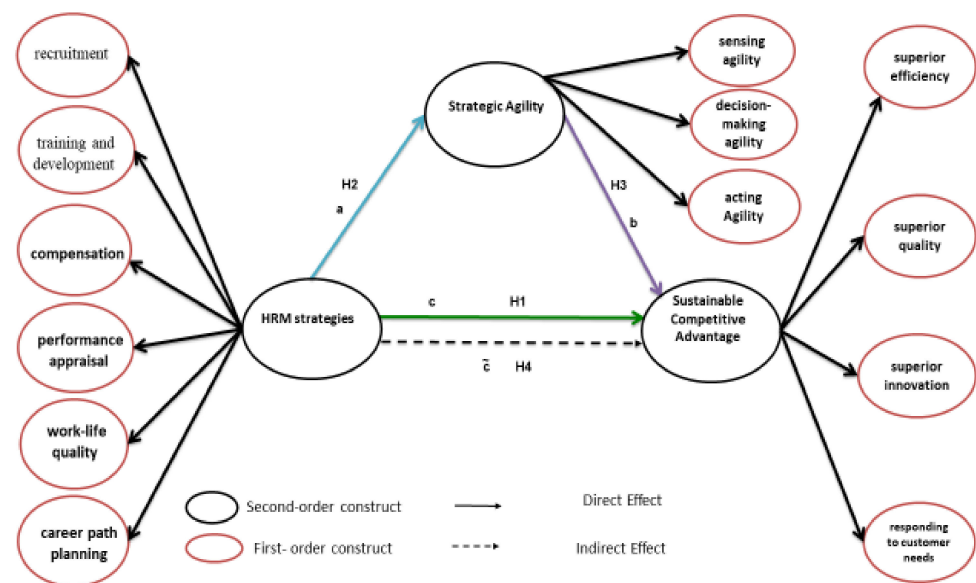


Figure 1. Theoretical framework.

Hypothesis 1 (H1). *There is a direct effect of HRM strategies on SCA in Yemeni large and medium sized manufacturing companies.*

2.2. Human Resources Management Strategies and Strategic Agility

Strategic agility is a complex construct with many aspects. Lin, Desouza, and Roy [44] defined strategic agility as the ability to continually change and adapt to business strategic directions through the development of new products and business models and creative ways of generating value. Moreover, strategic agility recognises and adapts to changes that would help the organizations to achieve greater success by exploiting potential opportunities, creating new sources of SCA, and establishing the fundamental ability for survival [45]. Organizations need to continuously anticipate, adapt, and interact with market trends and consumer needs without compromising their strategic visions [25]. Strategic agility is about the ability to change, to respond to customer's new trends, and to generate value. Thus, the interaction of staff capability, leadership, and the dynamic capabilities of strategic agility boost organization's ability to proactively adapt its reality, seize opportunities, and manage threats [46,47]. Strategic agility is the right approach to improve organizations' competitiveness and the ability to face future threats [45,48,49].

While many studies have focused on strategic agility [14,50], very limited researches examined the relationship between HRM strategies and strategic agility [48]. For exam-

ple, e Cunha et al. [51] developed six HRM domains of action that can enhance strategic agility. Crocitto and Youssef [52] emphasised the role of HRM in strategic agility through efficient leadership, reward system, effective training, manager strategic involvement, and strategy formulation. Similarly, Dyer and Ericksen [53] mentioned that HRM strategies contribute towards the setting of a clear organizational direction and modification of employee behaviour to continuously develop business requirements and generate innovations. Furthermore, Saha et al. [25] showed that strategic learning and HRM strategies contribute to enhancing organizational strategic agility. Bouaziz and Hachicha [16] showed that the strategy of training and development of human resources and human resources compensation strategy affect the promotion of strategic agility more than the impact of human resource evaluation strategy and recruitment strategy. There is a paucity in the research that links HRM strategies to strategic agility. Barahma et al. [15] emphasised the positive impact of HRM strategies on strategic agility and recommended further research to study the impact of these strategies in different research contexts. Moreover, Xing, Liu, Boojihawon, and Tarba [54] suggested that more research is needed to address the relationship between HRM strategies and strategic agility.

From the previous discussion, the following hypothesis was proposed (see Figure 1):

Hypothesis 2 (H2). *There is a direct effect of HRM strategies on strategic agility in Yemeni large and medium sized manufacturing companies.*

2.3. Strategic Agility and Sustainable Competitive Advantage

Strategic agility plays an important role in sustaining in the market when the organizations are competing in an unstable business environment [55]. Moreover, Teece et al. [23] stated that resources are not enough for organizations to gain superior returns in a highly competitive environment in the long term. The ability to develop new resources is the key factor for sustained competitive advantages.

The relationship between strategic agility and competitive advantage has been established in literature [49,56]. For example, Almahamid et al. [57] emphasised the positive role of strategic agility and knowledge exchange to achieve competitive advantage. Chen [58] tried to understand the effect of business intelligence and the flexibility of information technology infrastructure on competitive advantage via strategic agility. Furthermore, Dabiri and Gholami [56] indicated that strategic agility could affect competitive advantage through price, quality, reliability, delivery, and product innovation. Baškarada and Koronios' [47] study indicated that strategic agility has five dynamic capabilities: sensing, search, seizing, switching, and formulating. These capabilities help to play a pivot role in creating an SCA. Al-Romeedy [59] also indicated in an empirical study that strategic agility affects greatly the competitive advantage. Although a positive impact of strategic agility on SCA was traced in literature, this relationship was not established in the context of limited resources, such as the Yemeni industrial environment. To fill this gap in literature, the following hypothesis was proposed (see Figure 1):

Hypothesis 3 (H3). *There is a direct effect of strategic agility on SCA in Yemeni large and medium sized manufacturing companies.*

2.4. Human Resources Management Strategies, Strategic Agility, and Sustainable Competitive Advantage

From the previous discussion, the approval of the previous three hypotheses entails the existence of a partial mediation role of the strategic agility on the relationship between HRM strategies and SCA [60]. This complex relationship cannot be assumed unless it is supported by a strong theoretical background. The complexity of this relationship came from the fact that the impact of HRM strategies is not a simple lever that could simply create SCA [39]. Thus, we can think of many factors that could affect or alternate this relationship.

One of the most important factors that could play this role is strategic agility. To create SCA, companies should respond flexibly and rapidly to their environment. Saha et al. [25] proposed that strategic agility plays the supporting role between HRM strategies and the SCA as a tool to achieve a rapid and flexible response to the changing environment.

In line with that, the fourth hypothesis of the current study was proposed based on the interaction between the RBV theory and the dynamic capabilities theory as recommended by Wójcik [61] and Chen [58]. The RBV theory emphasizes the importance of an organization's resources in creating a competitive advantage, yet it does not explain how to use or improve these resources. Moreover, the resource theory does not take into account the dynamic relationship between the organization's resources and the surrounding environment. The dynamic capabilities theory fills in these spaces and acts as a complementary theory to the RBV theory. The dynamic capabilities theory explains the mechanism that helps organizations develop their resources in connection with their dynamic environment [58,62]. HRM strategies are deemed as an organizational resource that returns employee behaviour in a way that enhances employee skills and ability to build a company's optimal and proactive strategies. To the best of the researchers' knowledge, there was no conceptual or empirical study that addressed the indirect relationship between HRM strategies and SCA via strategic agility as a mediating variable. To fill this gap in literature, the following hypothesis was proposed (see Figure 1):

Hypothesis 4 (H4). *There is a significant mediating effect of strategic agility on the relationship between HRM strategies and SCA in Yemeni large and medium sized manufacturing companies.*

3. Methodology

3.1. Population and Sampling

Studying the mediation effect of strategic agility has to be tested in a representative context that could help in generalizing the research findings. Medium and large businesses have been chosen due to their ability to alter their strategic agility as they have more resources comparing to the other types of businesses, such as small and micro-sized businesses. Moreover, conducting the research in a resource-constrained context such as Yemen could excrete clearly the impact of strategic agility due to the limited availability of other factors or options. Thus, the targeted population was chosen to be representative in a way that would help to generalized the finding of this study.

According to the official reports of the ministry of industry and trade-Yemen, there were 554 medium and large organizations in the Republic of Yemen. These organizations were classified as medium and large according to the number of years since establishment and the number of employees [63]. The 554 organizations were classified according to their industrial activities into 5 categories: food industry (345), textile industry (80), chemical industry (47), cement and tiles industry (58), and machine industry (24). A stratified random sample was selected according to these categories' proportions. A total of 227 organizations were selected, where 46% were selected from the food industry, 20% from the textile industry, 10% from the chemical industry, 15% from the cement and tiles industry, and 9% from the machine industry. According to the power analysis, to determine the minimum satisfactory sample size of a medium effect size $f^2 = 0.15$, significance/probability level $\alpha = 0.05$, power level $\beta = 0.08$, number of latent variables = 19, and number of observed variables = 73; therefore, the minimum sample size should be no less than 110 organizations (Westland, 2010). Thus, the sample size of 227 organizations of this study was considered satisfactory and representative.

3.2. Data Collection

The questionnaire of this study was distributed manually to the organizations. The copies of the questionnaire were collected by 5 post-graduate surveyors. The surveyors were trained on the data collection process and data collection ethics through two days

course. The whole data collection process lasted for 4 months and 13 days. The data collection process for each organization lasted on average of 6 days with a maximum period of 14 days and a minimum period of 3 days. All organizations were followed up after 1, 3, 7, and 14 days via site visits or phone calls. The questionnaire was sent to the heads of companies and their deputies during April 2019 and August 2019. As a result, a total of 454 respondents were targeted. Only 289 questionnaires were returned, representing a response rate of 63%. Due to massive missing data, a total of 18 questionnaires were discarded. Therefore, only 271 questionnaires were used, which represented a response rate of (60%). The non-responding pattern did not show any bias problem, as it was found to be randomly distributed among the selected respondents. In summary, we can conclude that the selected sample was fairly representing the targeted population.

3.3. Instrumentation and Variables' Measurements

The data collection instrument is a questionnaire comprised of 3 sections. Section 1 contains 50 items measuring HRM strategies which were adapted from Laswar [64], Delery and Doty [29], Chen and Huang [65], Balkin and Gomez-Mejia [66], Jarbi [67], and Alanizi and Alfadhel [68]. HRM strategies are categorized into 6 dimensions: recruitment strategy, training and development strategy, compensation strategy, performance appraisal strategy, work-life quality strategy, and career path planning strategy [69]. Section 2 comprised of 19 items measuring strategic agility, which were adapted from the study of Alabdi [70] and Park et al. [71]. This section covered the 3 dimensions of strategic agility, namely, sensing agility, decision-making agility, and acting agility, as stated by Park et al. [71]. The third section is devoted to SCA measurement using 16 items adapted from Shabaan [72]. All of the items in the 3 sections were measured using a 5-point Likert scale that takes the values from 5 = strongly agree to 1 = strongly disagree. In summary, the questionnaire of this study was organized into 3 sections that measure 3 constructs: HRM strategies, strategic agility, and SCA.

3.4. Pilot Study

To reach its final version, the questionnaire of this study has gone through pilot testing. After the initial selection of the items for each construct, the questionnaire was tested through a panel discussion that consists of 9 experts in the fields of strategic management and HRM. Some items have been modified in compliance with their opinions and recommendations. After the panel discussion, a pilot study was conducted on the study's survey. The pilot study's data was obtained from 31 respondents who were the heads and deputies of some manufacturing companies. The data was processed further and used to test the reliability of the survey using the Cronbach's alpha test. Accordingly, 3 items were dropped from the recruitment strategy to improve the alpha value from 0.383 to 0.906. The final alpha scores were: 0.914 for HRM strategies, 0.907 for strategic agility, and 0.861 for SCA. Therefore, the finalized measurement of the proposed model consisted of 82 items with 13 dimensions. The questionnaire was further tested for the normality problem. The skewness-value was ranged from -0.050 to $+0.063$, and the kurtosis-value was ranged from -0.114 to $+0.728$, suggesting that the data was normally distributed.

3.5. Data Analysis and Hypothesis Testing Techniques

To test the proposed model and the study's hypotheses, the covariance-based SEM (CB-SEM) technique was applied through IBM AMOS 23 and IBM SPSS software. Three statistical processing methods were used: Exploratory Factor Analysis (EFA) to make sure that the constructs in this study reached a simple structure [73], Confirmatory Factor Analysis (CFA) to ascertain the quality of the model's conformance to the indicators [73], and SEM to test the main hypotheses.

The mediation effect was tested following Baron and Kenny's [60] approach. In this approach, the hypotheses H1, H2, and H3 should be tested for any significant impact. H1 and H2 should show significant scores; otherwise, the mediation effect could not be

confirmed. If H1 shows a significant impact, then we have a partial mediation effect; otherwise, the mediating effect would be described as perfect. According to this approach, the mediation magnitude could be calculated by multiplying ($a*b$) in the main model (see Figure 1). This study used the Variance Accounted for (VAF) to analyse the strength of the mediator effect. According to [73], partial mediation occurs when the VAF is greater than 20% and less than 80%. Convergent validity, discriminant validity, and internal consistency were tested following the procedure presented by [73].

3.6. Control Variables

Reviewing the literature directed the researchers' attention to a very important variable that could play the role of confounding the relationship between HRM and SCA. The product life cycle has been chosen because (1) it could have an effect on both the HRM strategies and the creation of SCA [74], (2) it is related to the other conventional control variables such as the size and sales of the organization, and (3) it is pivot variable, especially for the manufacturing sector. The product life cycle was measured using 3 levels: growing, matured, and declining depending on a 3-year sales pattern. HRM and SCA were manipulated and recalculated into new variables of 2 levels: high and low. The data on the product life cycle was available for only 108 businesses. Cochran–Mantel–Haenszel tests were used to test the partial association between HRM and SCA, given the product a life cycle. Cochran's test shows a significant association with $\chi(1) = 7.331, p = 0.007$. Similarly, Mantel–Haenszel shows almost the same significant score of $\chi(1) = 6.141, p = 0.013$. The previous discussion confirmed the association between HRM and SCA in the existence of the proposed confounding variable.

4. Findings

4.1. Measurement Model Assessment

The quality of the measurement model in terms of validity and reliability was assessed prior to testing the structural model [73]. This study conducted the EFA and then the CFA to purify the measurement. EFA was conducted with factor loadings of greater than 0.40. Moreover, all items that were saturated or loaded on more than one factor were deleted. As a result, items 9, 8, and 13 were trimmed away from the dependent variable (SCA) and items 6 and 9 from the independent variable (HRM strategies). KMO and Bartlett's test was conducted to test the sampling adequacy. KMO and Bartlett's test confirmed the suitability of conducting a factor analysis because it showed that all variables are correlated enough. The KMO and Bartlett's test showed significant values of 0.914 for HRM strategies, 0.925 for strategic agility, and 0.941 for SCA. In the second step, a CFA was conducted to test the assessment-of-fit between observed data and the theoretical model, which specifies hypothesised causal relations between latent factors and their observed indicator variables. EFA produced 13-factor solution explaining 72.654% of the variance. A first-order CFA was conducted to estimate the validity and reliability of the 13 dimensions. HRM strategies were represented in seven dimensions: recruitment strategy, training and development strategy, compensation strategy, performance appraisal strategy, work-life quality strategy, and career path planning strategy. Strategic agility was represented by three dimensions: sensing agility, decision-making agility, and acting agility. SCA was represented by four dimensions: responding to customer needs, superior efficiency, superior quality, and superior innovation. The CFA showed satisfactory results on the goodness-of-fit test. The Chi-square results are as follows: $4124.834, df = 2512, p = 0.000$, CIMIND = 1.642, CFI = 0.906, TLI = 0.90, RMSEA = 0.049, GFI = 0.880, AGFI = 0.850, IFI = 0.912, and NFI = 0.942.

Table 1 shows that the average variance extracted is higher than 0.50, which fulfilled the criteria of convergent validity. Moreover, the internal consistency of variables is also confirmed as the calculated values exceeded the recommended value (0.7). The correlation, which lies at the interval of (0.135–0.673), is lower than the threshold value (0.85). Thus, the

external correlation among the factors is less than the inner bonding value of similar factors, which indicates that the discriminant validity is achieved for all of the study's constructs.

Table 1. Factor Loading, Cronbach's alpha, CR, and AVE.

Variables	Items	Factor Loading	α (>0.7)	CR (>0.7)	AVE (>0.5)
HRM strategies			0.959		
Compensation strategy	SCOMPEN9	0.866	0.954	0.955	0.701
	SCOMPEN8	0.817			
	SCOMPEN7	0.801			
	SCOMPEN6	0.888			
	SCOMPEN5	0.788			
	SCOMPEN4	0.811			
	SCOMPEN3	0.882			
	SCOMPEN2	0.855			
	SCOMPEN1	0.822			
Training and development strategy			0.923	0.914	0.574
	STRAIN2	0.852			
	STRAIN3	0.897			
	STRAIN4	0.855			
	STRAIN5	0.710			
	STRAIN7	0.672			
	STRAIN8	0.683			
	STRAIN10	0.692			
	STRAIN11	0.657			
recruitment strategy			0.879	0.880	0.513
	SEMP3	0.661			
	SEMP4	0.663			
	SEMP5	0.659			
	SEMP6	0.676			
	SEMP7	0.760			
	SEMP8	0.830			
	SEMP9	0.745			
Performance appraisal strategy			0.909	0.870	0.628
	SEVALU2	0.809			
	SEVALU3	0.849			
	SEVALU4	0.801			
	SEVALU7	0.703			
Strategy of work-life quality			0.863		
Working environment condition	SWFQD14	0.781	0.829	0.828	0.617
	SWFQD13	0.760			
	SWFQD12	0.814			
Work-life balance	SWFQB5	0.703	0.840	0.848	0.586
	SWFQB6	0.875			
	SWFQB7	0.679			
	SWFQB8	0.789			
initially organizational work	SWFQC9	0.663	0.806	0.832	0.627
	SWFQC10	0.879			
	SWFQC11	0.817			
Career path planning strategy	SCPL1	0.874	0.893	0.882	0.653
	SCPL2	0.845			
	SCPL3	0.739			
	SCPL4	0.766			
Mediating Variable Strategic Agility			0.957		
Sensing agility	AGILITY1INV	0.960	0.977	0.976	0.909
	AGILITY2INV	0.990			
	AGILITY3INV	0.944			
	AGILITY4INV	0.919			

Table 1. Cont.

Variables	Items	Factor Loading	α (>0.7)	CR (>0.7)	AVE (>0.5)
Decision-making agility	AGILITY5	0.844	0.946	0.946	0.747
	AGILITY6	0.885			
	AGILITY7	0.902			
	AGILITY8	0.903			
	AGILITY9	0.888			
	AGILITY10	0.756			
Acting agility	AGILITY11	0.815	0.943	0.938	0.629
	AGILITY12	0.791			
	AGILITY13	0.827			
	AGILITY14	0.754			
	AGILITY15	0.810			
	AGILITY16	0.802			
	AGILITY17	0.776			
	AGILITY18	0.791			
	AGILITY19	0.767			
Sustainable competitive advantage			0.930		
Responding to customer needs	COMPETITIV14	0.821	0.903	0.890	0.729
	COMPETITIV15	0.895			
	COMPETITIV16	0.843			
Superior efficiency	COMPETITIV1	0.798	0.854	0.907	0.710
	COMPETITIV2	0.924			
	COMPETITIV3	0.881			
	COMPETITIV4	0.758			
Superior quality	COMPETITIV5	0.833	0.883	0.886	0.722
	COMPETITIV6	0.847			
	COMPETITIV7	0.868			
Superior innovation	COMPETITIV12	0.769	0.832	0.885	0.720
	COMPETITIV11	0.855			
	COMPETITIV10	0.915			

4.2. Structural Model Assessment

The structural model shows the relationship between the latent variables that were hypothesized in the proposed model in Figure 1. In order to test the hypotheses of the current study, SEM is used to ascertain the model's efficiency with its conformity with the data. The obtained fit indices results were $p < 0.5$. They are: Chi-square 4138.553, DF = 2522, $p = 0.000$, CIMIND = 1.641, CFI = 0.901, TLI = 0.90, RMSEA = 0.049, GFI = 0.70, AGFI = 0.69, IFI = 0.901, and NFI = 0.78. Thus, the results of goodness-of-fit indices indicated irrefutable evidence of an adequate model fit to the data, as shown in Figure 2.

4.3. Hypotheses Testing

After verifying the model fit, this study examined the direct and indirect effects among the study variables. The results of the structural model are illustrated in Table 2. The results show a significant direct effect of HRM strategies on SCA ($\beta = 0.33$; $p < 0.05$) in Yemeni large- and medium-sized manufacturing companies. There is also a significant direct effect of HRM strategies on strategic agility ($\beta = 0.64$; $p < 0.05$). Furthermore, there is a significant direct effect of strategic agility on SCA ($\beta = 0.40$; $p < 0.05$). Hence, H1, H2, and H3 were supported. Moreover, the results of squared multiple correlations confirmed that HRM strategies explained 40% of the variance of strategic agility and 44.1% of the variance of SCA.

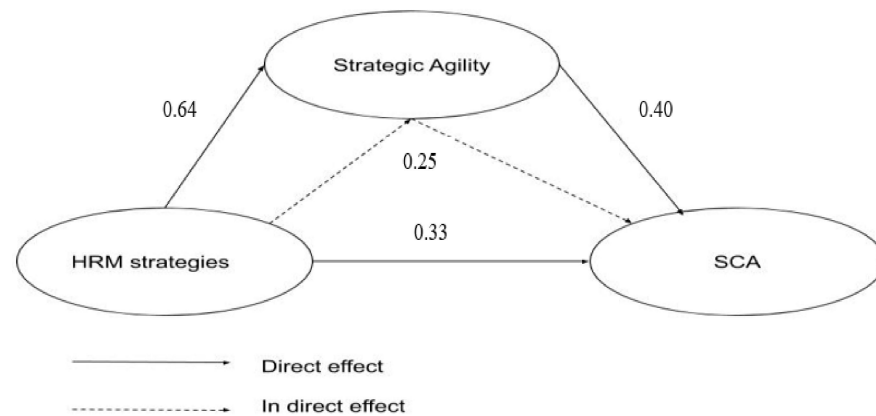


Figure 2. Structural equation modelling (SEM).

Table 2. Direct impact between the study variables.

Variable	Path	Variable	Path	S.E.	C.R.	<i>p</i> Value	Result
SCA	<—	HRM strategies	0.330	0.133	3.650	***	Significant
Strategic agility	<—	HRM strategies	0.64	0.112	6.373	***	Significant
SCA	<—	strategic agility	0.40	0.121	4.324	***	Significant

*** significant if less than 0.05.

4.4. Mediation Effect

As explained in the methodology section, testing the mediation effect has to go through testing more than one relationship of the direct and indirect effects. Table 3 shows the results of these relationships. It starts with presenting the hypothesis to be tested. The *p*-value column shows a score of 0.000, which indicates the rejection of the null hypothesis of having no indirect impact of HRM on the SCA. The second column shows the corresponding T-value of the previous test, which is, in this case, 3.65. The indirect column shows the score of the indirect impact of HRM on SCA. The indirect impact shows a magnitude of 0.256. The column of the indirect effect test shows a score of 0.001, which indicates that the indirect effect of HRM on the SCA is significant. This impact is significant, as shown in the indirect effect test results. According to these results, the total effect of HRM on SCA would be the total score of 0.586, which results from summing up the direct effect of 0.256 and the indirect effects of 0.33. The VAF shows a score of 0.563, which equals the direct effect (0.33) divided by the total effect. Thus, 56.3% of HRM strategies' effect on SCA is explained through the partial mediator variable (strategic agility) in Yemeni large- and medium-sized manufacturing companies. Furthermore, the validity of the indirect relationship of the fourth main hypothesis was explained through the Bias-corrected percentile method for upper and lower values, which were, respectively, 0.624 and 0.209. Therefore, it is considered in a good range, as shown in Table 3.

As shown in Table 3, H4 is supported. Therefore, HRM strategies have an indirect effect on SCA through the strategic agility variable. In other words, HRM strategies have a causal relationship with SCA through strategic agility. The theoretical model proposed in the current study fits the data collected from the target population. In turn, the results supported that strategic agility is a mediator variable in explaining the relationship between HRM strategies and SCA.

Table 3. Testing Significance of the Indirect Effect (Mediation).

Hypothesis	p-Value	T-Value (CR)	Bias-Corrected Percentile Method			Bias-Corrected Percentile Method		Indirect Effect Test Results		Result
			Indirect	Direct	Total Effect	Upper (BC)	Lower (BC)	(Bootstrap Stand Error) (TWO) Tailed Significance (BC)		
Indirect positive relationship between HRM strategies and SCA through the strategic agility as a mediating	0.000	3.650	0.256	0.33	0.586	0.624	0.209	0.001	Partial mediation	

5. Discussion

This paper responded to an important gap found in literature, as there was no conceptual or empirical study that addressed the indirect relationship between HRM strategies and SCA via strategic agility as a mediating variable. There is a paucity in the research that links HRM strategies to strategic agility. Barahma et al. [15] recommended further research to study the impact of these strategies in different research contexts. Moreover, Xing, Liu, Boojihawon, and Tarba [54] suggested that more research is needed to address the relationship between HRM strategies and strategic agility. Thus, this study was conducted to fill in this essential gap.

Following the first objective of achieving a comprehensive understanding of the relationship between HRM and SCA and strategic agility through the lens of the RBV theory and the dynamic capabilities theory, this study examines the mediating role of strategic agility on the relationship between HRM strategies and SCA. The findings supported the mediating effect of strategic agility on the relationship between HRM strategies and SCA. These results are consistent with previous studies on SCA [20,35,75–77]. Moreover, the findings of this study supported the significant impact of HRM strategies on strategic agility. This result was expected, and it showed concurrence with previous studies [15,16]. Furthermore, testing the third hypothesis of this study supported a direct impact of strategic agility on SCA. This result is in line with previous studies and supports the general theme found in previous literature [47,56,57,59,78].

6. Conclusions

6.1. Study Theoretical and Practical Implications

The findings of this study contribute theoretically in explaining the relationships among HRM strategies, strategic agility, and sustainable competitive advantage. This study developed the hypotheses based on the RBV theory and the dynamic capabilities theory to test the mediating role of strategic agility between HRM strategies and SCA.

Following the second objective of providing practical guidance on how companies can meet the competition challenges, it practically provides guidance for Yemeni large- and medium-sized manufacturing companies to maintain SCA by focusing more on strategic agility. Companies should also consider strategic agility as a tool to anticipate and manage changes, embrace risks to create more opportunities, and increase company readiness to face direct competition. Furthermore, the importance of HRM strategies in achieving SCA among Yemeni large- and medium-sized manufacturing companies will not be ideally realised if it is not combined with strategic agility. The Yemeni large- and medium-sized manufacturing companies can achieve SCA by attracting qualified human resources with the potential to meet the job requirements and maintaining and developing their skills and abilities. These findings highlight the critical roles of compensation strategy, performance appraisal strategy, work-life quality strategy, and career path planning strategy for maintaining SCA. This could practically be applied because HRM strategies could modify employee's behaviour to continuously develop business models in Yemeni large- and medium-sized manufacturing companies. This would align the internal processes to meet future challenges.

6.2. Study Limitations

The study focused on the medium- and large-sized businesses, which are considered in fact a very proper context that could help to understand the relationships among HRM, strategic agility, and SCA, yet the study did not cover other types of industries, such as small-sized businesses. Using the cross-sectional type of data could hinder the ability to understand the dynamic relationships among the study's variables. In addition to this, strategic agility has been studied as a mediating variable, and some other variables were ignored due to the scope of this study. Future research could apply the same conceptual model in different contexts, such as small-sized companies or in some other developed countries.

6.3. Future Research

Future research might examine the dynamic relationship in this conceptual model using a longitudinal design. It is also recommended to use other variables rather than strategic agility as mediating variables on the relationship between HRM strategies and SCA, such as organizational effectiveness, organizational commitment, and innovation.

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