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### Administrators' Strategic Thinking, Resistance to Change and the Performance of Saudi Higher Education Institutions

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### Abstract

The government of Saudi Arabia is recently embarking on transforming the entire economic and social system to bring forth socio-economic development. Such change transformation cannot be done without getting considerable change in all ramifications of government activities. The institutions of higher learning are selected as the pivot for implementing such great transformation. The objectives of this article are folds: To examine the direct relationship between strategic thinking and the performance of HEIs in Saudi Arabia and to assess the mediating influence of resistance to change on the relationship between strategic thinking and the performance of HEIs in Saudi Arabia. Two research questions and two corresponding hypotheses were formulated to achieve these objectives. The research used a quantitative method, with a structured questionnaire on a five-point Likert Scale. The findings indicate that strategic thinking is negatively related to the performance of HEIs in Saudi Arabia. Furthermore, the research found that the relationship between strategic thinking and HEIs performance in Saudi Arabia is mediated by resistance to change. Future research can study all the staff in the HEIs, not administrators, as middle and lower cadre staffs are the workers that implement changes. Similarly, future studies can also be carried out using the longitudinal method.

Keywords: Strategic Thinking, Resistance To Change, Vision 2030, Transformation

### Introduction

The recent extraordinary urge by the Saudi government for a huge transformation of the entire economic system and beyond has equally called for a sharp shift of the strategic management of the school system to contribute its quota to the significant reform as envisaged in 2030. Such government urges for the changes include, among others, the Saudi government's drive for the transformation of Saudi Arabia from a single-commodity economy to a knowledge economy (Moshashai *et al.*, 2018) to be driven partly by an agile higher

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educational sector (Mousa and Ghulam, 2019; Shafique, 2015). Rezny *et al* (2019) argue that the knowledge economy creates fundamental societal transformation to accomplish more remarkable and sustainable economic growth. It is also seen as a means to overcome the difficulty caused by snowballing resource shortages and negative climatic changes". Unfortunately, there has been a critical problem concerning the concept definition of the fundamental construct of strategic thinking and organizational performance among researchers. Furthermore, researchers have found contradictory results in research conducted in this area. For instance, mixed results were reported by (Alatailat *et al.*, 2019; Song *et al.*, 2011). In addition, Clauss *et al* (2019); Wijayanti *et al* (2020) reported no relationship in their studies. The inconsistency in the findings relating to the strategic thinking–performance relationship designates the need for indirect mechanism i.e., by bringing in an interacting variable in this relationship. Thus, this gap will be investigated in this article.

In this regard, the current study addresses the identified problems relating to the strategic thinking and organizational performance constructs earlier stressed. Muzanenhamo (2016); Jelenc (2008) established evidence in an empirical study that the relationship between strategic thinking and the performance of an organization is inconsistent. Some studies have discovered that strategic thinking promotes innovation and improves performance (Kazmi *et al.*, 2016). Thus, this article seeks to determine the relationship between the strategic thinking pattern of Saudi University administrators and their Saudi University performance and address the issue of the inconsistent findings by introducing an intervening variable, i.e., mediator ( resistance to change)

The following research questions were therefore formulated to investigate the problem mentioned above

#### **Research Questions**

- 1. Does any positive relationship exist between strategic thinking and the performance of Saudi HEIs?
- 2. Can resistance to change mediate the relationship between strategic thinking and the performance of Saudi HEIs?

#### **Research Objectives**

To answer the above research questions, the following objectives were developed for the research. The research objectives are:

- 1. To examine the relationship between strategic thinking and the performance of Saudi HEIs.
- 2. To find out if resistance to change mediates the relationship between strategic thinking and the performance of Saudi HEIs.

#### **Review of Literature and Hypotheses Development**

This research examines the mediating role resistance to change could play in the nexus between strategic thinking and the higher educational institutions (HEIs) Performance in Saudi Arabia. A review of the relevant literature was carried out. Specifically, it focuses on clarification of the four constructs to be investigated in the study and the theoretical grids upon which the study will be carried out.

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#### **Development of Hypotheses**

This study investigated the direct relationship between the administrators' strategic thinking ability and the Saudi HEIs' university performance. In addition, examining the mediating influence of resistance to change in the relationship between strategic thinking and the performance of HEIs in Saudi Arabia. Thus, two hypotheses were developed based on the proposed relationships among the research constructs. The indirect pathway relies on the psychological dispositions of senior HEIs officials concerning their strategic thinking ability relative to achieving excellent organizational performance. In other words, when lower strategic thinking capabilities characterize officials of HEIs, they may not resist organizational change and are highly likely to achieve institutional objectives.

#### **Strategic Thinking and HEI Performance**

Strategic thinkers are always organizationally aware and continually conscious of the interconnections among the various tasks and functions (Rant, 2018). Also, the responsibilities and units/departments within and between the organization and its stakeholders (Mellon and Kroth, 2013). Strategic thinkers are in high demand at various levels of management and in various industries, including higher education (Niebles et al., 2019). This is because successful strategies do not increase the ability to think strategically and position administrators to maximize organizational resources in pursuit of its objective, thereby positively impacting organizational performance (Ershadi and Dehdazzi, 2019). Empirical studies have also shown that strategic thinking competencies of administrators - in terms of their strategic intent (Muraguri, 2016), reflexivity and critical thinking (van Woerkom, 2004), intelligently opportunistic behaviour (Moon, 2013), insightful consideration of past experiences Ebrahimi and Sabbaghian (2015), scenarios planning and brainstorming Apgar (2015), and effective decision habits (Goldman et al., 2015) – severally and collectively enhances their organization's innovation potential and consequently improve organizational performance (Kazmi and Naaranoja, 2015; Kazmi et al., 2016). Given these empirical suggestions, this study hypothesizes the following

### H1: Strategic thinking positively influences the performance of Saudi HEIs

#### Resistance to Change as a Mediator between Strategic Thinking and Saudi HEIs Performance

An administrator's inclination to maintain things as they are despite the need to explore alternatives is referred to as resistance to change (Hon *et al.*, 2014; Oreg, 2018). Three factors may bring about this resistance: routine seeking, emotional reactions, short-term focus, and cognitive rigidity (Oreg, 2018). A significant portion of the literature on resistance to change treats the construct as a predictor (e.g., Ileri and Arik, 2019; Oreg, 2018; Oreg *et al.*, 2009; Rojas, 2020) or a criterion (e.g., Dorling, 2017; Oreg, 2006; Oreg and Berson, 2011; van Dam *et al.*, 2008) variable. The few exceptions include the recent work of Rafferty and Jimmieson (2017), who studied the mediating influence of affective, behavioural, and cognitive resistance to change in the relationship between transformational change and psychological well-being.

In this study, therefore, the researcher elects to investigate the construct as a critical mediator explaining the relationship between strategic thinking and the performance of Saudi HEIs. Some studies have shown that strategic thinking has a consequential effect on organizational performance (Ibrahim and Elumah, 2016; Jaffar *et al.*, 2019; Niebles *et al.*,

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2019) as well as on resistance to change (Zhiren and Yanqing, 2016), and resistance to change on performance (Amarantou *et al.*, 2018). Notwithstanding the previous arguments, resistance to change can be positive (Stoica and Mihalcioiu, 2013). Thus, resistance to change can be negative or positive, and each of these dual types consists of two sub-types. The negative type consists of active and passive resistance, and the positive variant comprises active and passive support (Stoica and Mihalcioiu, 2013). Thus, the discussion of resistance to change in this study broadly follows the duality conceptualized in the literature, including (Bridgman, 2018; Busse and Doganer, 2018)

However, despite the argument that strategic thinking has a direct influence on both organizational performance and resistance to change, it is equally plausible to argue strategic thinking can indirectly impact organizational performance based on the assumptions of mediation advanced in Baron and Kenny's (1986) seminal work. In other words, although strategic thinking may influence organizational performance, it may equally affect resistance to change by ameliorating its adverse influences, thereby enhancing organizational performance. By extension, therefore, the study also asserts that resistance to change can mediate between each of the five components of strategic thinking and the performance of organizations. Accordingly, the researcher expects an indirect relationship between strategic thinking (as well as its five components) and the performance of HEIs. To test these expectations, the researcher, therefore, advances the following hypotheses

H5: Resistance to change mediates the impact of strategic thinking on the performance of Saudi HEIs.

#### **Conceptual Framework**

Fig.1 below depicts the frame of this recent study, which shows a relationship between strategic thinking and the performance of HEIs as found in various extant literature. However, several other studies, as stated earlier, presented inconsistent results. Thus, in this new study frame, the relationship between the two main constructs is subjected to mediation to get a more prominent position in such a relationship. The two constructs, therefore, have been examined by the interaction of the resistance to change as a mediating variable.

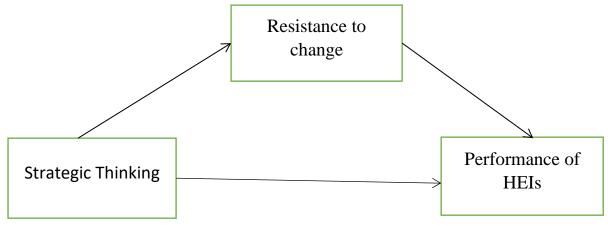


Fig.1 Conceptual Frame of the Study

#### **Research Methodology**

In this section, the researcher explains the methods, techniques, and tools applied in collecting and analyzing the data to answer the study's focal questions and achieve the stated

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objectives. These issues are presented against the backdrop of the research philosophy adopted as the overall guide concerning the ontological, epistemological, and methodological decisions made. The research philosophy is positivism which informs the selection of the research design (cross-sectional survey), which in turn determines both the nature of the data (quantitative) and the methods of analysis (correlational), and these issues were explained in the following.

The population of this study consists of all the universities in Saudi Arabia. There are 30 public and 13 private universities in Saudi Arabia (Ministry of Education, 2020). The focus of this research is on public universities. The reason for targeting public universities is that Vision 2030 overwhelmingly relies on public universities as agents of change that spearhead the transformation of the Saudi economy (Alsharari, 2019b). In this light, Saudi Arabia's public universities have been given the frontline mandate in articulating and implementing the sweeping changes in the country. Hence, the focus is placed on public universities. A twostage sampling strategy was used in collecting data from the 30 public universities in Saudi Arabia. Bryman (1989) suggests that "two levels of access are required: to the firm and the individuals" (p. 86). The probability-stratified sampling technique (Keskintürk and Er, 2007) was applied in the first stage, while the non-probability purposive sampling technique (Tongco, 2007) was employed in the second stage. Stratification was used to ensure that the final sample of higher education administrators selected to form the study respondents' pool is representative of the Saudi public HEIs. The purposive sampling technique was used to ensure that only respondents with the appropriate characteristics relevant to this study were selected for the sample.

A total of 328 respondents were selected for the study, the two steps described earlier. Only 277 questionnaires representing 84.45%, were returned, and 51, i.e., 15.55%, were not returned. Also, 12 representing 3.66% of all the returned questionnaires, were not filled completely or accurately. Hence, the analysis was run on 265 numbers of respondents. In any quantitative research, as low as one hundred (100) respondents are satisfactory to generate enough data and work out reliable and valid analysis (Hair et al., 2010). This means the data generated are adequate for this study. See Table 3.1 below. The questionnaire was designed in a five-point Likert scale rating form having '1 strongly disagree through to 5 strongly agree' employed to generate the primary data. The questionnaire contains closed questions.

#### **Descriptive Statistics**

The respondents' personal information, e.g., age, gender, marital status, and so on, shows that 210 respondents represent males, which is 79.2%. Females are 55 and 20.8%. Regarding educational level, diploma holders are 13, i.e., 4.9%; Basic degree holders are 36 representing 13.6%. Master degree holders are 137, which stands for 51.7%, and PhD holders are 79 in number and equivalent to 29.8%. For the number of years of experience, 1-5 years is 27, 10.2%, 6-10 is 72, 27.1%, 11-15 is 98, 37%, and 16 and above is 68, which represents 25.7%. See Table 1 below

#### INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH IN ACCOUNTING, FINANCE AND MANAGEMENT SCIENCES vol. 13, No. 2, 2023, E-ISSN: 2225-8329 © 2023 HRMARS Table 1 Response Rate

Items	Frequency	Percentage
Questionnaires Distributed	328	100%
Returned questionnaire	277	84.45%
Useable Questionnaires Returned	265	80.79%
Questionnaires not returned	51	15.55%
Returned Unusable questionnaires	12	3.66%

### Table 2

Demographic Information

Variable	Frequency	Percentage
Gender:		
Male	210	79.2
Female	55	20.8
Total	265	100
Education:		
Diploma	13	4.9
Bachelor Degree	36	13.6
Master Degree	137	51.7
PhD	79	29.8
Total	265	100
Experience:		
1-5	27	10.2
6-10	72	27.1
11-15	98	37.0
16 and above	68	25.7
Total	265	100

### Analysis and Discussions of Findings

The research data gathered through the questionnaire administered were analyzed using SPSS 24 and PLS-SEM 0.3 application. Firstly, analysis was started by conducting a pilot test to test for the reliability and validity of this research instrument adopted from past studies. The statistical techniques applied to achieve the reliability and validity of the constructs are Cronbach's Alpha test, composite reliability, and average variance expected, all in the Structural equation modeling (SEM) technique. See Table 3 below.

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Table 3

Construct Reliability and Validity

Variables	Cronbach's Alpha	rho_A	Composite Reliability	Average Variance Extracted (AVE)
Focused Intent	0.902	0.904	0.932	0.773
Hypothesis-Driven	0.963	1.027	0.972	0.898
Intelligent Opportunism	0.960	0.961	0.971	0.893
Performance of HEIs	0.991	0.999	0.991	0.860
Resistance to Change	0.992	0.992	0.993	0.888
System Perspective	0.960	0.964	0.971	0.892
Thinking in Time	0.957	0.972	0.969	0.886

### **Discriminant Validity**

The Fornell and Lacker (1981) philosophies emphasize that the discriminant validity in a model suggests examining on or after every measurement model analysis. Considerable discriminant validity occurs when the AVEs' square roots of such a model surpass the correlations between measures of interest and all other existing measures. Hence, this study investigated the discriminant validity for all constructs. The outcomes of these analyses indicate that the entire roots of the AVE of all the constructs lying diagonally on top in each column were larger than every other entry within the corresponding column and row they belong. Find the diagonal entries already bold in Table 4 showing the square roots of the AVE and remaining values presenting the inter-correlation of values between the constructs considered in this research. Thus, this fulfils Fornell and Lacker's criteria. By this, the discriminant validity has satisfactorily been attained for all the study constructs examined in the measurement model. Therefore, the structural model can now be run, and hypotheses can be tested.

#### Table 4

Variables	Focuse d Intent	Hypothesis -Driven	Intelligent Opportunis m	Performanc e of HEIs	Resistanc e to Change	System Perspectiv e	Thinkin g in Time
Focused Intent	0.879						
Hypothesis- Driven	0.003	0.948					
Intelligent Opportunis m	0.520	-0.024	0.945				
Performanc e of HEIs	0.048	-0.038	-0.015	0.927			
Resistance to Change	0.521	0.063	0.505	0.012	0.942		
System Perspective	0.312	-0.148	0.377	-0.042	0.291	0.944	
Thinking in Time	0.399	0.170	0.218	0.008	0.345	0.049	0.941

The Discriminant Validity (Fornell-Larker Criterion)

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Table 4 above indicates that all constructs meet their threshold of being the larger value in their entire respective column, which runs diagonally. For instance, focus intent has got 0.879 which appears in the first row and first column. This value is the largest value if considered whether horizontally or vertically. This position is the same for the correlation values of all the latent constructs. This means that discriminant validity is established for all the constructs. Hence, the structural model in this section is presented, having completed the measurement model.

#### Structural Model Assessment

In this regard, the direct hypotheses considered are hypotheses H1a to H1e which are shown on the model as having five dimensions but were stated as "*the strategic thinking will positively influence the performance of Saudi HEIs*". This hypothesis was assessed using five dimensions of strategic thinking. The hypothesis is rejected as all the strategic thinking dimensions except focus intent have negative Bata values, with all the t-values not reaching the minimum threshold of 1.96 at 0.05 p-values, as seen in the direct effect analysis figure and path coefficient table 5.

#### Table 5

Direct Effect Analysis

	Beta Value	T Statistics ( O/STDEV )	P Values
Focused intent -> Performance of HEIs	0.085	0.987	0.324
Hypothesis-Driven -> Performance of HEIs	-0.054	0.803	0.422
Intelligent Opportunism -> Performance of HEIs	-0.053	0.746	0.456
Resistance to change -> Performance of HEIs	-0.011	0.143	0.887
System Perspective -> Performance of HEIs	-0.048	0.693	0.489
Thinking in time -> Performance of HEIs	-0.028	0.374	0.708

Furthermore, one of the indirect effects of this article is the mediation effect of resistance to change on the relationship between strategic thinking and Saudi Heis's performance. In this section, hypothesis H5 states that *"resistance to change mediates the impact of strategic thinking on the performance of Saudi HEIs"*. The result in Table 6 reveals significant indirect negative effects for strategic thinking measures by its dimensions and the performance of HEIs in Saudi. All the dimensions have negative beta values, and two of them, i.e., hypothesis-driven and system perspective, both have less than the required t-value and higher p-value. This makes the relationship insignificant. But the thinking in time, intelligent opportunism, and focus intent have t-value of greater than 1.96 required thresholds with a p-value of less than 0.05 as shown in Table 6. Thus, this suggests a significant negative relationship between strategic thinking and the performance of the HEIs in Saudi.

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Table 6

Mediating Effect of Resistance to Change on Performance of HEIs

	Beta value	T value	P Values
Intelligent Opportunism -> Resistance to Change -> Performance of HEIs	-0.047	1.991	0.047
Thinking in Time -> Resistance to Change -> Performance of HEIs	-0.045	2.177	0.030
Hypothesis-Driven -> Resistance to Change -> Performance of HEIs	-0.003	0.295	0.768
Focused Intent -> Resistance to Change -> Performance of HEIs	-0.052	1.984	0.048
System Perspective -> Resistance to Change -> Performance of HEIs	-0.024	1.622	0.105

### **Discussion of Findings**

As mentioned in the previous chapter, strategic thinking is measured via its five popular dimensions: Focused Intent, Hypothesis-Driven, Intelligent Opportunism, System Perspective, and thinking time. Thus, it consists of five sub-hypotheses numbered H1a to H1e, as presented in Table 5. These hypotheses were designed to explore the direct relationship between the strategic thinking construct and the dependent variable, which is the performance of Saudi HEIs. The main hypothesis states that "strategic thinking will positively influence the performance of Saudi HEIs". However, the analysis found that strategic thinking does not positively influence Saudi HEIs' performance. The outcome of this study is in contrast with the empirical studies on the strategic thinking perspective that it enhances an organization's innovation and will improve its performance (Kazmi and Naaranoja, 2015; Kazmi et al., 2016). This finding is also in contrast with the results of a study that strategic intent is one of the essential factors that enhances the performance of universities (Muraguri, 2016). However, the study's finding is consistent with many other findings that reported a negative or no relationship between strategic thinking and performance (Clauss et al., 2019; Wijayanti et al., 2020). As is the case with these findings, many studies also reported mixed relationships regarding dimensions of strategic thinking and performance (Alatailat et al., 2019; Song et al., 2011).

The findings from the analysis on resistance to change as a mediator in the relationship between strategic thinking and performance of Saudi HEIs using the PLS-SEM indicated support for the hypothesis that presented a significant negative relationship. The major objective of this section is to examine if resistance to change mediates the nexus between strategic thinking and Saudi HEIs' performance. However, the current study intends to find out what happens to Saudi HEIs' performance when staff's thinking ability is impacted by employees' resisting change in their organizations. The findings indicate support for the proposed hypothesis by impacting negatively on the relationship between strategic thinking and the Saudi HEIs performance, which did not correspond with the research findings of many researchers (e.g., Ibrahim and Elumah, 2016; Jaffar *et al.*, 2019; Niebles *et al.*, 2019; Amarantou *et al.*, 2018).

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#### Conclusion

A series of debates exist in the extant literature about the theories of strategic thinking and HEIs performance relationships. The situation remains unclear if the performance of HEIs is influenced to a certain extent by the strategic thinking capacity of the HEIs managers. This issue gingered the researcher's interest to investigate and find out the influence of the strategic thinking of HEIs administrators on their institutional performance in Saudi Arabia. Essentially, it is worth noting that the Saudi Arabian government is presently adopting transformation agenda to actualize its vision for 2030. This has prompted this study as innovation is a critical factor in the transformation agenda for the actualization of Vision 2030. This article found a low level of influence of strategic thinking among HEIs administrators in Saudi Arabia. Therefore, the consciousness of the administrators of HEIs about the importance of accepting positive changes and not resisting improves the performance of the organizations. The administrators of HEIs in Saudi Arabia need to be opened minded and well tolerant of positive changes, which prepares them to interact perfectly with the volatility in organizational management arising from globalization. Therefore, administrators strategizing their thinking about the management and administration of the Saudi HEIs are prerequisites to boosting the HEIs' performance in the recent volatile organizational appearance globally.

#### Recommendation

Based on the study's findings, the study recommends generating resistance to changes among Saudi Arabian HEIs administrators. The administrators of the Saudi HEIs do not readily accept changes brought into the organization. Such a situation is brought about by the culture and tradition in Saudi Arabia's level of awareness concerning societal volatility and dynamism stemming from globalization and technological advancement. Thus, there is a need for the employees to change their mindset to be accepting positive changes.

#### Limitations of the Research and Suggestions for Further Study

There are several limitations in this study. First, the current study was not focused on all the employees, irrespective of their rank, to assess the overall views of the employees holistically. The staff that directly execute any introduced changes in the organization are those in the lower and middle cadre. But the current study only targeted the administrators. Thus, there is also a need to study the middle and lower-position staff. Second, this study used the cross-sectional survey method, which can hardly disclose the considerable total influence of the resistance to changes as it may impact the Saudi HEIs' performance since it is a one-time assessment. Therefore, further research can use a different method, particularly the longitudinal approach, which will enable the researcher to observe and assess the situation for a certain time frame, for one and a half years or two years. Finally, a comprehensive study of the Saudi HEIs, including universities and other colleges, is recommended to assess the overall influence of the staff's resistance to changes on their performance. This current study does not encompass all tertiary institutions. It was restricted to universities only. Therefore, further research is encouraged to investigate the possibility of all the higher institutions investigating their influence on Saudi HEIs' performance.

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