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Structural Ambidexterity vs. Contextual Ambidexterity: Preliminary Evidence from Malaysia

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Abstract

Structural ambidexterity and contextual ambidexterity have dominated the discussion on organisational ambidexterity, where the similarities and differences between them are being emphasised. One of the critical views is that although both of them are essential, the impacts on performance may be dissimilar. Since there are fewer empirical studies been done to demonstrate this view, this study aims to compare and contrast the effects of structural ambidexterity and contextual ambidexterity on the firms' performance of new product development (NPD). This study is examined in the case of manufacturing sector in Malaysia. The data was collected via a questionnaire survey targeting product/production managers, and processed with SPSS v.19 statistical technique. The results of correlation and linear regression analyses have shown that structural ambidexterity and contextual ambidexterity are indeed dissimilar in their effects on NPD performance, but at the same time are complementing each other. It is concluded that both of them are important, but must be applied according to the right contexts. Since this is a preliminary study, more empirical works need to be done to generalise the findings.

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structural ambide xterity

Introduction

This study was an empirical extension of the conceptual paper published recently focusing on the relationships between organisational ambidexterity and new product development (NPD) performance (Zaidi & Othman, 2014). According to the authors, previous studies that have empirically compared and contrasted between structural ambidexterity and contextual ambidexterity on NPD performance are still low. For instance,

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while studies on organisational ambidexterity have been performed in Malaysia, the focus was not specific on structural ambidexterity vs. contextual ambidexterity. Therefore, an empirical research to investigate the effects of structural ambidexterity and contextual ambidexterity on NPD performance of manufacturing firms in Malaysia is crucial to minimise the research gap. Since most topics on organisational ambidexterity are still dominated by the fundamental issues and discussions, instead of going for a full scale of empirical research, this study takes a preliminary action, as an attempt, to understand the effects of structural ambidexterity and contextual ambidexterity on NPD performance for the benefits of future study.

Problem Statement, Research Question and Objective

This study was motivated by the following three issues. First, the common measures for organisational ambidexterity with the interaction term of explorative and exploitative NPD (He & Wong, 2004) was inappropriate to measure neither structural ambidexterity nor contextual ambidexterity (Zaidi & Othman, 2014) as they have completely different characteristics and ways of creating balance (Birkinshaw & Gibson, 2004). As such, it would be important to measure them according to their special characteristics, but few empirical studies have actually done that. Second, due to the number of studies comparing and contrasting between structural ambidexterity and contextual ambidexterity on NPD performance is still uncommon, less that we know how does they faired together on NPD performance. Third, although the mainstream literature of organisational ambidexterity has described structural ambidexterity and contextual ambidexterity as being complementary in nature (Gibson & Birkinshaw, 2004), still they can also be contradicting each other (He & Wong, 2004). With these issues in mind, it would be crucial to address the problem of how can structural ambidexterity and contextual ambidexterity be complemented in one time, but contradicted in another time? As a respond to the question of this problem, the objective of this study is to investigate the effects of structural ambidexterity and contextual ambidexterity on NPD performance, where they can be compared and contrasted.

Structural Ambidexterity vs. Contextual Ambidexterity

Ambidexterity refers to the ability to use both hands with equal skill. In organisational context, it refers to the firm's ability to simultaneously deploy explorative and exploitative NPD (Luzon & Pasola, 2011) as they need coordination and integration to create value (Teece, 2007). In the context of this study, organisational ambidexterity is defined as a firm's ability to simultaneously exploit existing products with known knowledge, and explore new product with unfamiliar knowledge (Andriopoulos & Lewis, 2009). There are two widely accepted meanings of organisational ambidexterity (Gibson & Birkinshaw, 2004). The one that exists in the firm's structure refers to as the structural ambidexterity, while the one that lies in the behavioural orientation refers to as the contextual ambidexterity (Luzon & Pasola, 2011). See Table 1 for comparison.

Table 1: Structural ambidexterity vs. contextual ambidexterity (Birkinshaw & Gibson, 2004)

Characteristics	Structural	Contextual		
	Ambidexterity	Ambidexterity		

	Alignment-focused	Individual employees		
	(exploitation) and	divide their time between		
How is ambidexterity	adaptability-focused	alignment-focused		
achieved?	(exploration) activities are	(exploitation) and		
	done in separate units or	adaptability-focused		
	teams	(exploration) activities		
Where are decisions made about the split between alignment and adaptability?	At the top of organisation	On the front line – by salespeople, plant supervisors, office workers		
Role of top	To define the structure, to	To develop the		
1101 0 01 10p	make trade-off between	organisational context in		
management	alignment and adaptability	which individuals act		
Nature of roles	Relatively clearly defined	Relatively flexible		
Skills of employees	More specialists	More generalists		

As shown in Table 1, structurally ambidextrous firm separates the explorative from the exploitative unit, each with different management, processes, structures, and cultures, but are well integrated under a senior management team (O'Reilly & Tushman, 2004) to allow the structures to be "tightly coupled [within] subunits that are themselves loosely coupled with each other" (Benner & Tushman, 2003, p. 247). In order to become structurally ambidextrous, one needs to have the senior teams (1) that have the ability to sense and understand different needs of businesses, (2) that are committed to implement ambidexterity, and (3) that communicate a clear vision to allow both explorative and exploitative NPD to coexist (O'Reilly & Tushman, 2004).

In contrast, contextual ambidexterity is viewed as a meta-level capacity where the simultaneous pursuing of explorative and exploitative NPD within a single business unit is built on the processes or systems that encourage individuals to divide their time between activities. This means, while the individuals in their units provide value to the current customers, they also seek the opportunities in the changing environment and respond accordingly. Therefore, contextual ambidexterity allows individuals in the firm to dynamically and flexibly decide on how to divide time between the rewarded and valued activities of explorative and exploitative NPD (Gibson & Birkinshaw, 2004). The collective efforts of individuals at pursuing explorative and exploitative NPD can be exhibited at the organisational level of contextual ambidexterity (Schudy, 2010).

Although the ways structural ambidexterity deals with explorative and exploitative NPD were different from contextual ambidexterity, both of them are important to be viewed together. For instance, while structural ambidexterity gives short-term benefits, contextual ambidexterity gives long-term benefits to the firm. And while structural ambidexterity manages the incongruences between explorative and exploitative NPD within separate business units, contextual ambidexterity manages the incongruences with the collective behavioural ability of individuals (Gibson & Birkinshaw, 2004). This implies both types of organisational ambidexterity achieve balance between explorative and exploitative NPD in a different ways that deserve equal attention.

However, the literature had stressed upon structural ambidexterity when dealing with the conflicting nature between explorative and exploitative NPD as the standard approach (Birkinshaw & Gibson, 2004). Unfortunately, separation of activities in different structures can cause isolation (He & Wong, 2004). For this reason, firms may also need to be

contextually ambidextrous since it complements structural ambidexterity in pursuing different NPDs simultaneously (Gibson & Birkinshaw, 2004). For instance, while structural ambidexterity is needed to create differentiation between explorative and exploitative NPD with dual structures, contextual ambidexterity is needed to create integration between dual structures with behavioural and social means (Andriopoulos & Lewis, 2009). As such, it will be difficult to investigate the effects of organisational ambidexterity if one of them is excluded since there was no single way to become ambidextrous, and there was also no single leadership model for ambidexterity (Gibson & Birkinshaw, 2004). Therefore, as they complement each other, structural ambidexterity and contextual ambidexterity should be investigated side-by-side on NPD performance to fully understand their consequences (Simsek, Heavey, Veiga, & Souder, 2009).

Organisational Ambidexterity and NPD Performance

NPD performance was the interest of this study because organisational ambidexterity is observed through the simultaneous pursuing of explorative and exploitative NPD. Since performance can be seen through various perspectives such as accounting, marketing, and operations (Neely, 2002) and various categories such as profitability, market valuation, operational performance, and innovation (Aral & Weill, 2007), the criteria for measuring NPD performance are diversified including both financial and nonfinancial measures (Wang, Lee, Wang, & Chu, 2009). Financial and nonfinancial criteria are critical to measure NPD performance due to the need of firms to continuously improve their existing products for current viability and at the same time develop new products for future viability. In the recent studies, both measures were demonstrated to the manufacturing and R&D firms in Malaysia (i.e., Omar, Sulaiman, Hui, Rahman, & Hamood, 2015; Kowang, Rasli, & Long, 2014). With this reason and since the effective performance measures for organisational capabilities should be based on the context (Loasby, 2010), this study has adapted both financial and nonfinancial measures for NPD performance.

Furthermore, although financial performance is measured with the accounting-based measures such as sales growth, profits, return-on-investment (ROI), and market share (Ittner, Larcker, & Meyer, 2003), the nonfinancial criteria that is measured the intangible assets are actually the indicator to firm's financial performance (Kaplan, 2008) such as where firm's performance is related to constant development and introduction of new product (Ernst, 2002). For these reasons, it appeared that the nonfinancial performance is also critical to measure NPD. For instance, even though the internal exploitative of known technology and external explorative of new technology that are positively related to innovative performance are not related to financial performance (Rothaermel & Alexandre, 2009), they were found to be contributed to the financial performance of manufacturing firms in Malaysia (Rosli & Sidek, 2013).

In the context of this study, organisational ambidexterity that enables the firm to simultaneously pursue explorative and exploitative NPD to achieve long-term success is related to performance (Gibson & Birkinshaw, 2004). Since the improvement in NPD portfolio management positively increases NPD performance (Acur, Kandemir, Weerd-Nederhof, & Song, 2010), each and every types of organisational (structural and contextual) ambidexterity is expected to be positively related to NPD performance. For instance, manufacturing firms in Malaysia can increase their NPD performance with organisational ambidexterity by creating balance between explorative and exploitative NPD (He & Wong,

2004). Meanwhile, a previous study has also suggested a jointly deployment of explorative and exploitative NPD with organisational ambidexterity at different levels will results in positive effects on NPD performance (Chu, Li, & Lin, 2011).

In addition, previous study had revealed contextual ambidexterity does have a strong relationship with firm's performance (Gibson & Birkinshaw, 2004). Meanwhile, an empirical research had proven that when applying functional structure (for ambidexterity) to incremental NPD process, the effect on derivative innovation performance is positive. On the other hand, when applying cross-functional structure (for ambidexterity) to radical NPD process, the effect on breakthrough innovation performance is also positive. In contrast, when applying functional structure to radical NPD process or applying cross-functional structure to incremental NPD process, the effect on innovation performance is negative (Visser, et. al., 2010). This implies organisational ambidexterity itself may have limitations and negative effects on NPD performance if pushed way to far (He & Wong, 2004). Since no much empirical evidences comparing between structural ambidexterity and contextual ambidexterity on NPD performance, it would be critical to empirically investigate these relationships further.

Theoretical Framework and Hypotheses Building

As to investigate the effects of structural ambidexterity and contextual ambidexterity on NPD performance, where they can be compared and contrasted, a simplistic theoretical framework modified from the original version proposed in Zaidi and Othman (2014) was developed as shown in Figure 1.

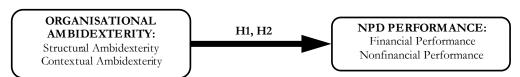


Figure 1: A simplistic diagram of theoretical framework

Since there were fewer empirical studies been done on the topic of organisational ambidexterity (Raisch, Birkinshaw, Probst, & Tushman, 2009), the following hypotheses were built partly on the previous findings (based on Section 4.0) and partly on the concept itself where the researchers believed that "changes in the value of one variable are related to changes in the value of the other variable" (Argyrous, 2011, p. 17):

H1: The effect of structural ambidexterity is different from contextual ambidexterity on financial performance of NPD

H2: The effect of structural ambidexterity is different from contextual ambidexterity on nonfinancial performance of NPD

Research Methodology

This preliminary study is taking places in the manufacturing sector of Malaysia to compare and contrast the effects of structural ambidexterity and contextual ambidexterity on NPD performance. The respondents were randomly selected among product/production managers (and equivalent) from the directory of the Federation of Malaysian Manufacturers focusing on NPD. The data was collected via questionnaire that contains seven items for structural ambidexterity (adapted from Tempelaar, 2010), six items for contextual

ambidexterity (Fiset & Dostaler, 2013), four items for financial performance (Wang, Lee, Wang, & Chu, 2009), and six items for nonfinancial performance (Wang, Lee, Wang, & Chu, 2009; Atuahene-Gima, Li, & DeLuca, 2006). The description of these items after data reduction is shown in Table 2. Meanwhile, six items for firm profiles were also adapted from various related studies. The data was then processed with the SPSS v.19 statistical technique to perform descriptive, correlation, and regression analyses according to the study objective.

Table 2: Description of items retained in component

Components	Description of Items	Codes
Structural Ambidexterity	• The production activities that are structurally separated within the organisation.	Q1d
	• The innovation activities (e.g., R&D) that are structurally separated within the organisation.	Q1e
	• The departments (e.g., line or staff) that are clearly separated within the organisation.	Q1f
	• The customers' needs that are served from separate departments.	Q1g
Contextual Ambidexterity	 Take initiative beyond the confines of your own jobs. 	Q2a
	• Alert to opportunities beyond the confines of your own jobs.	Q2b
	• Seek out opportunities to combine your efforts with others.	Q2c
	 Cooperative to combine your efforts with others. 	Q2d
	 Act as a broker who always looking to build internal linkages. 	Q2e
	• Act as a multi-tasker who comfortable wearing more than one 'hat'.	Q2f
	The firm's sales growth relative to competitors.	Q3a
Financial	• The firm's market shares growth relative to competitors.	Q3b
Performance	 The firm's growth in profit relative to competitors. 	Q3c
	• The firm's return on investment (ROI) relative to competitors.	Q3d
Nonfinancial Performance	• The quality of product that is better than the firm own other products.	Q4d
	• The quality of product that is better than the competing (competitors) products.	Q4e
	• The customers' perception that the product is more reliable than the competing products.	Q4f

Data Preparations and Factor Analysis

This preliminary study has received 105 responses, but only 87 responses were acceptable after data screening and cleaning, and preparation for parametric analysis. There was no nonresponse bias in this study. The Shapiro-Wilk test has shown that the distributions of all data were approximately normal for structural ambidexterity (p = 0.105), contextual ambidexterity (p = 0.163), financial performance (p = 0.142), and nonfinancial performance (p = 0.06) at the significance level of p < 0.05. All variables were reliably good as they

exceeded the Cronbach's Alpha of 0.70 (i.e., structural ambidexterity ($\alpha=0.855$), contextual ambidexterity ($\alpha=0.904$), financial performance ($\alpha=0.824$), and nonfinancial performance ($\alpha=0.713$)). Meanwhile, the Principal Component Analysis (KMO MSA = 0.791, and Bartlett's Test of Sphericity = 0.00) has suggested four components (cumulative % of Eigenvalues = 69.817). This has also caused removal of four items from structural ambidexterity, and three items from nonfinancial performance. Since the acceptable minimum numbers of item per component are three, all variables have sufficient items retained for further analysis (i.e., structural ambidexterity (4 items), contextual ambidexterity (6 items), financial performance (4 items), and nonfinancial performance (3 items)). See Table 2 for the description of items retained in each component.

Profile of Respondents

Descriptive analyses on the dataset have revealed that 71.3% of all respondents were product/production managers, 65.5% of them have served the firms for less than 11 years, 58.1% of firms were established for less than 21 years, 62.8% of firms were categorised under SME with employees no more than 150, 82.2% of firms were doing incremental NPD, and one-thirds of respondents were from the electrics/electronics and plastics-related industries (37.1%). The analysis also shown that all Mean values were above 4 (for average) in a 7-point Likert scale implying that the respondents was generally agreed (between scales 5 to 7) with the statements on all variables.

Research Findings

Correlation analysis (not displayed here) has shown that structural ambidexterity was only significantly correlated with nonfinancial performance (r=0.277), while contextual ambidexterity has no problem to significantly correlated with both financial (r=0.288) and nonfinancial (r=0.583) performance. At the meantime, structural ambidexterity and contextual ambidexterity (r=0.462), and financial performance and nonfinancial performance (r=0.289) were also found to be significantly correlated, all of which were positive at p<0.01 level (2-tailed). Implicitly, the analysis has found that contextual ambidexterity has a moderate relationship with nonfinancial performance, while the correlation between structural ambidexterity and nonfinancial performance is weak. Accordingly, two regression analyses were performed, each for financial and nonfinancial performance. See Table 3 for the summary of analyses.

Table 3: Summary of regression analyses for NPD performance

Analysis		Analysis 1 Financial performance	Analysis 2 Nonfinancial performance
ANOVA	F	4.869	21.369
	Sig.	0.010*	0.000*
Summary	R	0.324	0.583
Model 1		Beta t Sig.	Beta t Sig.

^{2&}lt;sup>nd</sup> International Conference on "Role Of Multidisciplinary Innovation For Sustainability And Growth Policy" (MISG- 2015)

(Constant)		1.439	0.154		1.207	0.231
Structural	_	-	0.158	0.010	0.099	0.921
ambidexterity	0.167	1.424				
Contextual	0.365	3.121	0.002*	0.578	5.752	0.000*
ambidexterity						

^{*}p < 0.01 level

Table 3 shows that Model 1 for the effects of structural ambidexterity and contextual ambidexterity on the financial (F=4.869, p=0.010), and nonfinancial performance (F=21.369, p=0.000) were generally existed at the significance level of p<0.01, which means at least one of the two types of organisational ambidexterity was significantly affecting NPD performance. From another angle, these findings suggested that the variances in structural ambidexterity and contextual ambidexterity were explained about 10.5% ($R^2=0.324^2$) variations in the financial performance, and 34% ($R^2=0.583^2$) in the nonfinancial performance, which implies that the organisational ambidexterity influenced nonfinancial performance more than financial performance.

By referring to the Coefficients Table in Model 1, it was found that structural ambidexterity is negatively related to financial performance at the coefficient value of Beta = -0.167, and positively related to nonfinancial performance at Beta = 0.01. In both cases, the effects of structural ambidexterity on NPD performance were very minimal. This observation was proven by the insignificant results between structural ambidexterity and financial (p = 0.158), and nonfinancial (p = 0.921) performance at p < 0.01 level. In contrast, contextual ambidexterity was found to be positively related to the financial (p = 0.365), and nonfinancial (p = 0.578) performance with weak to moderate strength. With these strengths, the effects of contextual ambidexterity on the financial (p = 0.002), and nonfinancial (p = 0.000) performance were significant at p < 0.01 level.

In conclusion, all hypotheses have found support. In details, when comparing between structural ambidexterity and contextual ambidexterity on NPD performance, the regression analyses have found that structural ambidexterity differs from contextual ambidexterity on both financial (H1), and nonfinancial performance of NPD (H2). In both cases, while structural ambidexterity has not effect on NPD performance, contextual ambidexterity was affecting the NPD performance in a positive way. This implies increasing in the level of contextual ambidexterity will improve the level of NPD performance and vice versa.

Discussions

In general, the results in this study were found to be consistent with the impressive aspect of organisational ambidexterity where the link with performance is proven to be existed (O'Reilly & Tushman, 2013). However, when comparing between structural ambidexterity and contextual ambidexterity, it was found that structural ambidexterity has no significant effect on NPD performance. As such, unless all results were significantly supported, structural ambidexterity and contextual ambidexterity have limited room for comparing and contrasting purposes. With all we have from the findings, this study is able to come up with the following insights:

Firstly, the effect of moderation variable. With no direct effect of structural ambidexterity on NPD performance, this may suggest that structural ambidexterity is actually works well under the conditions (moderation) of uncertain environment (O'Reilly &

Tushman, 2013). As such, since contextual ambidexterity has direct positive effect on both financial and nonfinancial performance, this could means that structural ambidexterity is better suit turbulence environment while contextual ambidexterity is better suit stable environment. This was evidenced in the recent study that has found where NPD performance was positively affected by structural ambidexterity under high-level of market and technological turbulence, in contrast, contextual ambidexterity was only positively affected NPD performance under the condition of low market turbulence (Zaidi & Othman, 2015).

Secondly, the types of item. Upon inspection of the items that were used to measure nonfinancial performance (see Table 2), it appears that all the retained items were only related to quality measures after data reduction. In other words, the nonfinancial performance was actually represented by quality performance. This implies that structural ambidexterity could possibly have affected the nonfinancial performance if the measuring items are different from Table 2. Accordingly, it also appeared that structural ambidexterity has no effect on sales growth, market share, profit and ROI, which suggests that separate structures/units for explorative and exploitative NPD is not proven to bring any direct/immediate financial gains to the firms. However, bear in mind that the structural ambidexterity in this study was only measured with four items that was originally seven. As such, the findings were based on limited measures for structural ambidexterity.

Thirdly, the characteristic of respondents. Opposite to the results of structural ambidexterity, the findings were inclined toward contextual ambidexterity with all direct positive effects on financial and nonfinancial performance of NPD. In other words, the results suggested that contextual ambidexterity is relatively better than structural ambidexterity on achieving NPD performance. However, these findings were only relevant within the scope of this study, which could be explained by the demography of respondents. For the records, this study was responded by more than 65% product/production managers who have served the firms no more than 10 years, in which 62.8% of all responses were from SME, and where the incremental NPD represented 82.2% of total projects. This implies that majority of respondents who preferred contextual ambidexterity over structural ambidexterity on NPD performance were younger professional that came from less structured/rigid organisation, with the activities mainly focusing on continuous improvement of existing products. Consequently, will this simply implies that the characteristics of firm who preferred structural ambidexterity over contextual ambidexterity are just opposite of the observed demography? Although no detailed analysis been done in this study to confirm the influence of respondent's demography on the relationships between organisational ambidexterity and NPD performance, at this point of time, it would be worth noting that the effects of organisational ambidexterity on NPD performance may (or may not) be influenced by the firm's demography/characteristics (perhaps acts as a confounding/extraneous variable).

Lastly, the complementary of organisational ambidexterity. The correlation analysis has suggested that structural ambidexterity and contextual ambidexterity was related with moderate strength (r = 0.462). Therefore, it is possible that although structural ambidexterity has no direct effect on NPD performance, but when mediated by contextual ambidexterity, the effect will become significant and positive. As such, a Sobel Test (not shown here) was performed to investigate the mediating effect of contextual ambidexterity between structural ambidexterity and NPD performance. It was found that contextual ambidexterity indeed mediated the relationships between structural ambidexterity and financial (p = 0.00927), and nonfinancial (p = 0.00025) performance at the significance level of p < 0.01. In contrast, Sobel Test also found that structural ambidexterity was not mediated contextual ambidexterity to financial (p = 0.17203) and nonfinancial (p = 0.92134) performance. This

implies that structural ambidexterity will only affect NPD performance when "complemented" by contextual ambidexterity, but not the other way around. This could also means that firms who possessed both contextual ambidexterity and structural ambidexterity in complementary are doing better than firms who possessed only contextual ambidexterity. However, more empirical test is needed to prove this argument.

Implications

This study has brought at least three implications to the literature of organisational ambidexterity. Firstly, since the characteristics of structural ambidexterity and contextual ambidexterity have been clarified with the factor analysis, they can be used as a starting point to identify firms with structural ambidexterity and contextual ambidexterity. Furthermore, these characteristics can also be used to differentiate between ambidextrous and non-ambidextrous firms. Secondly, the findings that have shown different effects between structural ambidexterity and contextual ambidexterity on NPD performance will enable us to further understand the interactions between them, and know the right timing to use them individually or in complementary. Lastly, this study has found that organisational ambidexterity, as in general, can be related directly and indirectly to NPD performance. As such, study on organisational ambidexterity should not necessarily be done on firm's performance. This implies the benefits of organisational ambidexterity could also be existed in firms, but in different forms.

Limitations

This study was a preliminary in nature where the processes followed may not be too rigid. Accordingly, the sample sizes were small (less than 100) to perform regression analysis by standard. However, all assumptions for the parametric analysis were followed. Since some outputs were only slightly better than the minimum requirements for regression analysis at the significance level of p < 0.01, the findings should be interpreted with care bearing the scope and context of this study. Lastly, this study was not critical on whom being structural ambidextrous and whom being contextual ambidextrous as the data were gathered according to the respondents' perception.

Recommendations

With the limitations in mind, this study has identified the following room for improvement for future research agenda. Firstly, the sizes of sample should be increased to better achieve the assumptions for parametric analysis. Secondly, since the final numbers of item for measuring nonfinancial performance were only three after data reduction, future study should lists more items from well-known literature instead of just six. Thirdly, although the data for this study was taken from various manufacturing industries, the responses were dominated by the SME where most NPD were incremental. As this could possibly influence the findings, future study should focus on a specific industry and/or size of firm to confirm the findings are replicable. Lastly, the scope of NPD performance can be expanded to include wider dimensions. For instance, different sets of performance, such as innovation

performance, market performance, operational performance, etc. should also be examined in a search for a better fit for structural ambidexterity and contextual ambidexterity in the firms.

Conclusions

Correlation analysis has found that the relationships between structural ambidexterity and contextual ambidexterity on NPD performance were dissimilar. While contextual ambidexterity correlated to both financial and nonfinancial performance of NPD from weak to moderate strength, structural ambidexterity only correlated to the nonfinancial performance with weak strength. Accordingly, the regression analyses have shown that contextual ambidexterity is positively affecting the NPD performance, while structural ambidexterity has no effect on the NPD performance. However, structural ambidexterity and contextual ambidexterity did complementing each other. These findings have answered the research question and achieved the objective of the study where the relationships and effects of structural ambidexterity and contextual ambidexterity were compared and contrasted on the NPD performance. Since this study was at the preliminary stage, the discussions, limitations, and recommendations should be noted for the improvement of future study and better understanding of the nature of structural ambidexterity vs. contextual ambidexterity.

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