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Environmental Characteristics: Moderator of Strategic Planning Process Formality and Performance

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Abstract: The study considered the dynamics of environmental factors and the extent to which they moderate the influence strategic planning process formality has on performance. Approach to the study was descriptive, ex-post facto survey. A multiple constituency approach was used for performance measurement. Environmental characteristics incorporated a five-item environmental turbulence scale. Relationships between the variables (SPPF, DYNA, PERF) were analyzed with bivariate correlation, binary logistic regression test, and linear regression. Higher degrees of strategic planning process formality enhanced performance in environments where demand and customer tastes could fairly and easily be forecasted. Increased adherence to established standards (higher degrees of strategic planning process formality) is recommended for achieving desired outcomes.

Keywords: Strategic Planning Process Formality, Environmental Characteristics, Performance

1. Introduction

Strategic planning processes do not seem to have significant influence on the performance of institutions due to some perceived level of negligence in acknowledging the contribution of environmental factors. The process appears to have become routine exercise without due consideration to elements within its environments (O'Regan & Ghobadian, 2007, in Boateng et al., 2015). Many plans are shelved and do not influence output as a result of this (Bracker& Pearson, 1986). Business environments seem to have been changing – and so should institutional approaches. The study has therefore examined environmental characteristics of institutions, and the volume of their moderated influence on the relationship between their strategic planning processes and performance. It provides institutions with broader understanding of their environments, and how to smoothly adapt internal resources for enhanced performance. It informs decision makers, the strategies to pursue for enhanced performance, based on characteristics within their environments. The hypotheses tested at 0.05 level of significance was that environmental characteristics have no significant moderating influence on the strategic planning process formality-performance relationship. This hypothesis is influenced by the dynamic capabilities theory, and contingency theory. The ability to identify and analyze environmental factors could lead to better strategic choices for improved performance. The environments are considered key contingency variables for relationships between strategy and performance.

2. REVIEW OF LITERATURE

Strategic Planning Process: The genesis of formal strategic planning in 1950's was led by Druker (Odongo & Datche, 2015). Many studies have defined strategic planning in diverse ways. Ansoff (2007, cited in Moussetis, 2014) viewed strategy planning as the common thread in an organization's business growth and product scope. Strategic planning also deals with making long-term decisions that enable organizations respond to changing environments. According to Johan, Thompson and Strickland (2010), strategic planning is a process, and it involves assessment of threats and opportunities, weaknesses and strengths in changing environments. Strategies are laid down to cope with problems, with institutional goals in view. Johan, Thompson and Strickland (2010) further define strategic planning as management tool that uninterruptedly and systematically evaluates a business, identifies its long-term goals and quantifiable objectives, develops a plan to implement, monitor performance, allocate resources, redefine the plan where need be, to ensure the organizational

members work towards the defined goals in changing environment. Current studies demonstrate that strategic planning helps in decision making as it focuses attention on relevant environmental issues and challenges an organization faces and further assist decision makers chart a path into the future (Bryson, 2018). The evidence is fairly clear that organizations that are managed well and are relatively stable perform better, are properly responsive to external needs, are innovative in effective ways, have enormous influence, are more accountable, and are more resilient (Borins, 2014; Meier & O'Toole, 2009).

A strategic planning process is germane to every institution's survival because it is the process by which the institution adapts to its ever-changing environment, and the process is applicable to all management levels and all types of institutions (Karim, 2018). This gives the indication that the process is relevant to the assessment and forecasting of the external environment as it keeps changing to ensure organizational survival. Karim (2018) identified this systematic planning exercise as involving series of phases to determine the present status of the business, including its mission, vision for the future, needs, objectives, actions and strategies' priorities, action plans and monitoring and evaluation programs. The environments of an organization influence its capacity and the ability of individuals to build or discover opportunities (Muhammad, 2014; Karim, 2018).

Strategic Planning and the External Environment: Previous research revealed significant relationship between strategic planning and organizational performance. In addition to this, researchers demonstrate that for enhanced performance, there is the need to create significant information and understanding of the environments within which organizations operate. For this reason, strategic planning deals with making long-term decisions that make organizations responsive to changing environments. Environments, according to Kowo (2018), does not specifically mean physical surroundings but instead used to explain all the influences that bear upon the individual organization. Environmental characteristic is used to mean anything within the surrounding of an organization. It encompasses external variables which cannot be easily controlled by management (Bayode& Adebisi, 2012). However, the nature of the environment can be characterized with both internal and external factors. Oginni and Adesanya (2013) posited that the internal environment of a business is controlled by circumstances such as policy, personnel, capital and others while the external consist of factors outside the control of institutions – political, economic, social, technological and government legislation. Johnson et al.(2008, cited in Adu, 2016) identified macro external factors, industry factors and competitors and market as essential elements of external environment of an organization.

Environmental characteristics are environmental forces beyond the control of management but influences the activities of firms (Shrader, Mulford, & Blackburn, 1989). 'Dynamism' or 'volatile' environment are all related to the frequency and speed of environmental change (Grant, 2003; Glaister, Dincer, Tatoglu, Demirbag, & Zaim, 2008; Ansof, 1970). Environmental dynamism refers to "the degree of instability or turbulence of such key operating concerns as market and industry conditions as well as more general technological, economic, social, and political forces" (Mohd, Idris, & Momani, 2013:41; see also Dess & Beard, 1984). It refers to the rate of change, absence of pattern and unpredictability of the environment. Environments have been viewed as key contingency variables for relationships between strategy and performance (Schwenk&Shrader, 1993). Understanding the nature of the environments and how they manipulate organizations, therefore, requires some attention. Adeoye (2013) attests that to cope with the unstable and rapidly changing environments, there is the demand to create and execute proper strategies that would safeguard their functions and produce desired targets (see also Arasa and K'Obonyo, 2012). Prescott (1986) noted that the environment establishes the context that allows evaluation of various relationships between strategy and performance. Greenley and Foxall (1997, in Glaister et al., 2008) comment that even though strategic planning, to some extent, affects performance, the relationship is influenced by the external environment. "Dynamic business environments may be characterized by changes in various market elements, such as customer preferences, technology and competitor structure" (Mohd et al., 2013:41). It is defined with reference to the unpredictability of the environment. It has been mentioned that the level of uncertainty is higher during the emergent levels of environmental dynamism, which in turn reduces the predictability and effects of change (Iansity 1995; in Mohd et al., 2013).

Strategic Planning and Performance: Germano and Stretch-Stephenson (2012) argued that strategic plans are developed and executed by businesses to chart a course toward an idealized future

destination. According to Michael, Shirley and Stretch-Stephenson (2012), this means aspiring to become an institution leader or niche holder by increasing market share, developing customer loyalty, penetrating new markets or some other defined goal that is ultimately premised on growth in revenue attainment. Currently, strategies demand the development of plans that embrace customer engagement to improve revenue. For these reasons, several researches have demonstrated the effective role of strategic planning on institutional performance (Mcllquham-Schmidt, 2010; Wang, Walker & Redmond, 2007). The correlation between strategic plan and performance of institution has been largely studied (Suklev & Debarliev, 2012;Aldehayyat&Twaissi, 2011; Ida, Azahari, Munauwar & Rushami, 2015). Aldehayyat and Khattab (2013) suggested that utilizing mechanisms of strategic planning would assist in achieving better performance.

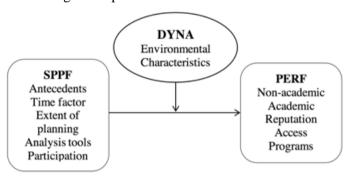


Fig1. Conceptual model (2014).

Key: SPPF – Strategic Planning Process Formality; DYNA – Environmental Characteristic; PERF - Performance.

The dynamic capabilities framework answers the question of how some organizations are able to securely achieve competitive advantage in dynamic markets (Ferdinand, J., Graca, M., Antonacopoulou, E., &Easterby-Smith, 2004). The approach "analyzes the sources and methods of wealth creation... by private enterprise firms operating in environments of rapid technological change" (Teece, D. J., Pisano, G., &Shuen, 1997:509). It is an extension to the resource-based theory which is static and does not account for market dynamism (Priem& Butler, 2001; Poulis, Poulis, & Christodoulou, 2013). The dynamic capabilities theory aims at considering how to develop and maintain a firm's resources over time (Teece *et al.*, 1997) due to changing environments, then make better strategic choices for improved performance.

Contrary to the classical approach (scientific management) which assumed the 'one best way' to manage organizations (Kinicki & Williams, 2011), contingency theory emphasizes that a manager's approach to strategy should depend on individual environmental situations. There is the likelihood that environmental factors could determine the extent of the relationships between strategy and performance. "Different external conditions might require different organizational characteristics, and that the effectiveness of the organization is contingent upon the amount of congruence or goodness of fit between structural and environmental variables" (Lawrence & Lorsch, 1967; in Shenhar, 2001:395). It is improbable to have universally applicable management principles due to environmental variances. Organizations differ from each other with different situations [contingencies] that require different ways of managing (see also Robbins & Coulter, 2012; Bracker& Pearson, 1986; Bahaee, 1992). Organizations are expected to approach management with their varied firm contexts in view – recognize and respond to situational variables as they arise (Robbins & Coulter, 2012).

The literature has re-emphasized the magnitude of benefits of strategic plans, influenced by certain industrial characteristics (Shraeder, 2002). Miller and Cardinal (1994) found that the relationship between strategic planning and performance was more noticeable in organizations that operated in turbulent environments. Risseeuw and Masurel (1994) also found that uncertainty caused by environmental complexity has positive influence on the planning sophistication, although this is not confirmed as statistically significant and that the planning intensity is highest in an environment that is perceived as moderately dynamic. Planning intensity in this case refers to the frequency of strategic planning.

An initial study by Arasa and K'Obonyo (2012) examined the relationship between strategic planning and firm performance focusing its attention on strategic planning process in Kenya. The study

presented a significantly positive relationship between strategic planning and firm performance. All the strategic planning process which include defining institution's objective, scanning of business environment, identification of firms' strategic issues strategy choice and setting up implementation, evaluation and control system were found to be significantly correlated to firm performance. Aldehayyat and Twaissi (2011) also confirmed a statistically positive relationship between strategic planning and firm's performance. Ida, Azahari, Munauwar, and Rushmi (2015) declared that strategic planning makes vital contribution to the performance of an institution.

Nooraie (2012) and Priem, Rasheed, and Kotulic (1995) also suggested that the extent of rationality in strategic decision-making process is positively related to performance in dynamic environments, while less rationality is associated with high performance in stable environments. Debarliev and Trpkova (2011) noted that the application of structural strategic planning made entrepreneurs better prepared for anticipating and coping with future changes. Additionally, Burns and Stalker (1961, in Chae& Hill, 2000:542) reported that "organizational structures with lower centralization and formalization characteristics were better suited to more dynamic environments". Chae and Hill (2000) noted that the impact of turbulent environments on planning formality has been researched but with mixed conclusions.

Boulton *et al.* (1982, in Chae& Hill, 2000:542) concluded that "uncertainty did not consistently impact strategic planning". Bresser and Bishop (1983, in Chae& Hill, 2000:542) also argued that "comprehensive planning in uncertain and complex environments caused more problems than it solved". The writers believed that the needed creativity for spontaneous response in a fast-changing environment may be hindered by formal planning procedures. Since it is the aim of formal strategic planning to guide the organization through its uncertain environments, it then holds that the ability to anticipate and make accurate strategic future choices may possibly lead to enhanced performance. In this sense, strategic planning may be more useful in a turbulent environment than in a stable one (Armstrong, 1982; Miller & Cardinal, 1994; in Glaister*et al.*, 2008). The correlation between planning and performance may be stronger in a turbulent environment and weaker in a placid environment, hence environmental turbulence leads to greater incidence, formalization and effectiveness of strategic planning (Glaister*et al.*, 2008).

Falshaw*et al.* (2006) state that the strategic planning frequency increases as environmental turbulence increases, which is confirmed by the research of many authors from this area (Boyd &Reuning-Elliott, 1998; Eisenhardt, 1989; Shraeder, 2002; Armstrong, 1982). The empirical evidence is mixed. While some studies find strategic planning more useful in a dynamic (turbulent) environment, according to Glaister et al (2008; see also Eisenhardt, 1989; Miller & Cardinal, 1994), others argue that increasing turbulence could lead to reduced reliance on formal planning systems and greater reliance on experience or other informal systems; the impact is likely to be positive in a stable environment where predictions are easier (Fredrickson & Mitchell, 1984). Wilson (1994, cited in Grant, 2003) found that external instability led to greater informality (e.g. less documentation and more flexible schedules). Also, Kukali (1991, in Grant, 2003) observed that increased rates of external change increased the flexibility of planning practices. This does not mean less detailed plans. Organizations attempt to handle environmental uncertainty with greater planning efforts (Grant, 2003).

The use of formal planning is more common with firms in complex environments (Lindsay & Rue, 1980; in Chae and Hill 2000). Furthermore, Chae and Hill (2000:542) report a study conducted by Kukalis (1989, 1991) which concluded that planning is extensive and short-termed, and frequently reviewed where environmental complexity is high. Environmental complexity is also positively associated with strategic planning formality (Wiersema &Bantel, 1992). Shenhar (2001) observes that mechanistic firms should perform better in simple, stable, and more certain environments while an organic firm is best for uncertain environments. Along the same line, Miller (1987) also noted that formalization positively impacted formal strategic choices. "A high level of uncertainty in the environment therefore requires less formalized and more flexible structures, and more complex but flexible departments and roles (Lawrence & Lorsch, 1967, cited in Glaister*et al.*, 2008). (Unfavorable: The trend seems to be uniform, but Mintberg (1979, in Glaister*et al.*, 2008) notes that support for these arguments has not been consistent in the literature.

Organic or less formalized organizational structures operating in highly uncertain and more dynamic environments appear to positively affect the link between strategic choices and organizational performance (Miller & Cardinal, 1994; Glaister*et al.*, 2008; Nooraie, 2012). According to Glaister*et*

al. (2008), Boyd &Reuning-Elliott (1998) contend that the relationship between strategic planning and performance is stronger in a more dynamic environment but weaker in a stable environment. Miller and Cardinal (1994) also found that the relationship between strategic planning and performance was more noticeable in organizations that operated in turbulent environments. Strategic planning may be more useful in a turbulent environment than in a stable one (Armstrong, 1982; Miller & Cardinal, 1994). The extent of rationality in strategic decision-making process is positively related to performance in dynamic environments, while less rationality is associated with high performance in stable environments (Glaister et al., 2008; Nooraie, 2012).

3. METHODOLOGY

The descriptive, ex-post facto survey was the approach used in this study. Sampling units consisted of strategic planning committees of accredited degree awarding private institutions of higher learning. Eighty-four 84 responses were retrieved from 26 institutions. Questionnaire was adapted from Glaister*et al.*, 2008.Respondents were asked to indicate the extent of their agreements/disagreements with each questionnaire item.

The areas of concern for strategic planning process formality (SPPF) included antecedent and process dimensions, time factor, extent of planning, strategic analysis techniques, and participation in planning. Institutional performance was measured with a multiple constituency model by Abdullah (2006). The areas measured were reputation, academic, non-academic, access, and program issues. The moderator variable of interest was environmental characteristics (the environment is either dynamic or stable). These were operationalized to specify the functional relationships and analytical models that clarified the links between them.

Table 1. Environmental Characteristics Scale

Dynamic (0)		Stable (6)
Our firm must change its marketing practices	DYNA1	Our firm has to change its marketing practices
extremely frequently (e.g. semi-annually).		to keep up with the market and competitors.
Threat of obsolescence is very high, as in	DYNA2	The rate at which products or services are
some fashion goods.		getting obsolete in the industry is very slow
		(e.g., academic programs).
Actions of competitors are unpredictable.	DYNA3	Actions of competitors are quite easy to
		predict.
Demand and tastes are almost unpredictable.	DYNA4	Demand and customer tastes are fairly easy to
		forecast.
The modes of service change often and in a	DYNA5	The service technology is not subject to very
major way.		much change and is well established.

Source: Glaister*et al.* (2008)

Operationalization of environmental characteristics incorporated a five-item 'Environmental Turbulence Scale' of Glaister et al. (2008): DYNA1 – DYNA5 (see Table 1). This scale was patterned after Miller and Droge's (1986) environmental uncertainty measure, which was also based on the measures of Khandwalla (1974, 1977; in Glaister et al., 2008). On a scale of 1 to 6, respondents were asked to indicate the intensity or rapidity of each item within their environments.

Logistic function was used to model the binary dependent variable. Environmental characteristics questionnaire items that had significant interaction with SPPF toward influencing PERF were determined with binary logistic regression. This contextual variable (DYNA4) was standardized and moderated with the criterion variable. The volume of the moderated variable's (DYNA4) influence on the strategic planning process-performance (SPP-PERF) relationship was then determined with linear regression. The standardized scores of DYNA4 were multiplied by the composite value of SPPF. This sought to properly quantify DYNA4's influence. Results were regressed on PERF to determine the extent of DYNA4's moderating influence.

4. DATA PRESENTATION AND DISCUSSION

The study focused on moderating effects of environmental dynamics on the SPPF-PERF relationship. Efforts to adhere to rules towards long term planning were found to have been given attention over emergent, flexible planning. The planning processes of most institutions were more formal than flexible, as seen in Table 2 (Boateng *et al.*, 2015).

Table2. Strategic Planning Process Formality

Categories	Frequency	Percent
A: Flexibility	22	26.2
B: Formality	62	73.8
Total	84	100.0

Source: Boateng et al. 2015

Performance measurement focused on five areas: non-academic, academic, reputation, access, and programme issues (Abdulai, 2006, in Boateng *et al.*, 2015). The scale ranged from 'very poor' to 'very good'. Areas that needed attention were Non-academic aspects and Access. Performance was 'Poor' among 36.9% of institutions, and 'Good' among 63.1% of institutions. It was normally skewed at -0.14 (-0.5 \geq 0 \leq +0.5). Overall performance (mode = 3.8) was therefore rated 'fairly good' (see also Boateng *et al.*, 2015).

Table3. *Linear Regression of SPPF and PERF (Coefficients*^a)

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95.0% Confider	nce Interval for 3
	β	Std. Error	Beta			Lower Bound	Upper Bound
1 (Constant)	3.818	3.060		1.248	.216	-2.269	9.904
SPPF	.091	.020	.444	4.485	.000	.051	.131

a. Dependent Variable: PERF

Source: Field survey (2014; see also Boateng *et al.* 2015)

Performance was 3.818 in the absence of strategic planning process formality. Table 3 reveals that performance improves by 9.1% with a unit increase in the degree of strategic planning process formality. On the other hand, a unit decrease in the degree of formality led to a 9.1% decrease in performance (see also Boateng *et al.*, 2015). Environmental Characteristics refer to the frequency at which components within institution's environments change; more frequent (dynamic) or less frequent (stable). Lower ratings on a six-point Likert scale (Table 1) meant dynamic (frequently changing) environments, while higher ratings indicated stable environments.

Table4. Binary Logistic Regression – Variables in the Equation

		β	S.E.	Wald	Df	Sig.	Exp(β)
Step 2 ^b	DYNA4	.482	.191	6.353	1	.012	1.619
	Constant	-4.313	1.516	8.093	1	.004	.013
Step 3 ^c							
	DYNA4	.546	.202	7.291	1	.007	1.726
	Constant	-5.703	1.771	10.368	1	.001	.003

Source: Field survey (2014)

The relationships between strategic planning process formality (SPPF) and the moderator (DYNA4) was represented by the following model: SPPF = -5.703 + 0.546DYNA4. Of the five (5) variable items describing the environments, DYNA4 was identified as the best fit moderator variable that interacted with SPPF. DYNA4 sought to determine whether demand and customer tastes were almost unpredictable (dynamic), or were fairly easy to forecast (stable). The environments were 59.5% stable, and 40.5% dynamic. The probability for DYNA4 (p = 0.007) to influence formal strategic planning was extremely high (Table 4) – DYNA4 significantly favors formal planning over flexible planning.

Table5. Moderator Skewness

	N	Minimum	Maximum	Sum	Mean	Std. Deviation	Skewi	ness
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std.
								Error
DYNA4	84	1	6	297	3.54	1.602	192	.263

Source: Field survey (2014)

DYNA4 was -0.73 skewed – most environments with higher degrees of SPPF were stable. The Pearson Correlation Coefficients for DYNA4 and SPPF (Table 8) reported the existence of some

significant (but not so strong) degree of association between DYNA4 (r = 0.285; p = 0.008) and SPPF at the 0.01 level of significance.

The study eventually focused on the value of the SPPF-PERF relationship in the absence of external influences, amount of influence DYNA4 adds to the relationship, and, the estimated error of the model. To properly quantify the influence of DYNA4 on the SPPF-PERF link, its standardized scores were multiplied by the composite value of SPPF. The results were then regressed on PERF to determine the moderating influence of DYNA4.

Table6. Moderated DYNA4 on SPPF-PERF Relationship

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95.0% Co Interval	
	В	Std. Error	Beta			Lower Bound	Upper Bound
1 (Constant)	13.689	1.195		11.454	.000	11.311	16.066
Moderated DYNA4	.007	.002	.352	3.410	.001	.003	.011

a. Dependent Variable: Institutional Performance

Source: field survey (2014)

PERF in the absence of the moderated DYNA4 is 13.689 (Table 6). The SPPF-PERF relationship is increased by 0.7 percent with a unit increase in the moderated variable (DYNA4), holding all other independent variables constant. The t statistic value of 3.410 was also significant (p = 0.001).

Table7. Model Summary – Moderated DYNA4 and SPPF-PERF Link

Model	R	R	Adjusted R	Std. Error of		Change	Statisti	cs	
		Square	Square	the Estimate	R Square	F	df1	df2	Sig. F
					Change	Change			Change
1	.352 ^a	.124	.114	4.773	.124	11.628	1	82	.001

a. Predictors: (Constant), Standardized DYNA4

b. Dependent Variable: Institutional Performance

Source: field survey (2014)

Indicates that DYNA4 accounted for 12.4 percent of the variation in the SPPF-PERF relationship, with a corresponding standardized error of 4.956 (Table 7). About 87.6 percent of variation in the SPPF-PERF relationship was explained by other factors. Table 8 indicates that there existed some significant degree of association between DYNA (r = 0.285; p = 0.008) and SPP at the 0.01 level of significance. The relationship did not seem stronger.

Table8. Pearson Correlation Coefficients – DYNA and SPP

		DYNA	SPPF
DYNA	Pearson Correlation	1	.285**
	Sig. (2-tailed)		.008
SPP	Pearson Correlation	.285**	1
	Sig. (2-tailed)	.008	

**Correlation is significant at the 0.01 level (2-tailed).

Source: Field survey (2014).

Key: DYNA - Environmental dynamism; SPPF - Strategic Planning Process Formality

DYNA4 sought to determine whether demand and customer tastes were almost unpredictable (dynamic), or were fairly easy to forecast (stable). The model favoured the later. Table 5 reports that DYNA4 is -0.73 skewed. Again, there was 59.5% indication that institutions operated within stable environments, and 40.5% within dynamic environments. Higher degrees of planning formality improve performance in less dynamic environments (Capon *et al.* (1994; cited in Boateng *et al.*, 2015). This therefore highlights the importance of a systematic strategy formalization process (Dutton & Duncan, 1987). The environments of most institutions with higher degrees of SPPF were stable – customer tastes were easily predictable. Table 8 shows that there was some degree of association

between DYNA4 (r = 0.285; p = 0.008) and SPPF at the 0.01 level of significance. This translated into higher degrees of SPPF as the environments of the institutions progressed from dynamism to stability. The SPPF-PERF relationship was improved by 0.7 percent with a unit increase in each presented opportunity to fairly and easily predict environmental changes, holding all other variables constant. Hence, a unit increase in such ability to forecast (from dynamic toward stability) made the strategic planning process 0.7 percent more effective. In such environments, plans do not change frequently and makes room for long term decisions. Institutions whose performance was good due to their acquired predictability skills, and pursued higher degrees of formal strategic planning processes were 73.2% higher than any group (institutions with more relaxed formality). Those who adopted planning process flexibility had 50% poor performance. In summary, higher degrees of SPPF enhances performance in a stable, predictable environment.

Hypothetically, a unit increase in DYNA4 significantly influenced the SPPF-PERF link by 0.7 percent with a significant t statistic value of 3.410 (p = 0.001), as seen in Table 6. With a unit increase in the ability to fairly and easily forecast demand and customer tastes, the strategic planning processes were more effective towards enhancing performance (by 0.7%). Environmental characteristics were here seen to moderate the SPPF-PERF relationship. The study therefore failed to accept the null hypothesis that, environmental characteristics have no significant moderating influence on the relationship between formal strategic planning and performance.

To a larger extent, institutional decision makers have no control over the environments within which they operate. The environment establishes the context for evaluating the relationship between strategic planning process and performance (Prescott, 1986). Structures therefore should be modified as environmental changes are noticed, for enhanced performance. Robbins and Coulter (2012) also adds that an environment's degree of change and/or its complexity influences an organization's strategy-performance relationship (see also Grant, 2003; Glaister et al, 2008). The link is enhanced where, in a stable environment, institutions adopt a mechanistic structure with formal strategic planning processes.

Strategic planning process formality, per other studies, increases with increased environmental turbulence; the relationship gets weaker in a stable environment (Debarliev&Trpkova, 2011; Falshaw et al., 2006). In a similar study among Turkish companies, Glaister et al. (2008) found that environmental turbulence moderates positive relationship between SPPF and firm performance. Falshaw et al. (2006) also found that dynamic environments lead to more formalized planning systems for improved performance. These findings confirm earlier studies (Armstrong, 1982; Miller and Friesen, 1983; Eisenhardt, 1989; Boyd &Reuning-Elliott, 1998; Miller and Cardinal, 1994).

Others argue that increased environmental dynamism rather leads to greater dependence on experience and other informal skills decreasing the need for formal planning systems. The current study favours the latter. The need for formal planning systems increases with decreased environmental turbulence, for improved performance (Mintzberg, 1993; Fredrickson & Mitchell, 1984; Johnson, Scholes, & Whittington, 2008). Asika (2011), also explains that environmental failures (environmental, economic, legal, and managerial) happen at a level where business fails to respond to impacts due to environmental changes. The Ghanaian business environment seems to be more certain and stable. Per available responses, predictability is fairly easy – signaling a stable environment. Such environment promotes the ability to place strong emphasis on getting personnel to follow laid down procedures – which is not possible in dynamic environments where planning may be frequent. The certainty of the Ghanaian environment (ability to predict demand) allows for long term planning.

5. CONCLUSION AND RECOMMENDATIONS

The purpose of planning is to enhance the ability to perform efficiently and effectively. In the study, performance improved as institutions resorted to more aggressive strategic planning processes within stabilized and predictable contexts. The performance of institutions whose strategic planning processes showed some higher levels of formality was better. This therefore is in tandem with proposals that strategic planning processes should be active and working systems, and notmere repetition of courses of actions that are predicted, charted, and shelved. Per this study, SPPF involves the ability to conceptualize an institution in its entirety to determine the best possible alternatives for goal attainment.

It is established that to some extent, environmental components are likely to moderate strategic planning processes' influence on performance. Decisions to improve institutional performance, in light of established strategic planning processes should not ignore environmental factors, such as the ease with which demand is predicted. This therefore requires structural modification as environmental changes are noticed, for enhanced performance. In an environment where demand and customer tastes are easily and fairly forecasted, it is recommended that institutions focus on higher degrees of strategic planning process formality(SPPF), where, higher degrees of formality imply strict compliance to strategic planning processes. higher degrees of strategic planning process formality should be pursued as institutions grow in stable environments.

6. LIMITATIONS AND SUGGESTIONS FOR FUTURE STUDIES

This study was limited in its evaluation of performance. Future efforts may consider other performance measures outside academics, reputation, non-academics, access, and programmes. Moderating influence of specific environments (economic, political, socio-cultural, legal, etc) could also be the focus of future research activities.

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