



Innovation Strategies and Organizational Effectiveness among Selected Manufacturing Firms in South-South, Nigeria

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Abstract

This study investigated innovation strategies and organizational effectiveness in selected manufacturing firms in South-South, Nigeria. Specifically, the study sought to examine the effect of aggressive innovation on performance, evaluate the influence of proactive innovation on productivity, determine the degree to which defensive innovation enhances value creation, ascertain the extent to which analytics innovation boosts competitive strength and establish the relationship between risk-taking innovation and market share of selected manufacturing firms in South-South, Nigeria. The study adopted a survey research design and the primary source of data was mainly used on the course of gathering data from the respondent and supported by reviews from secondary sources for validation. The target population of one thousand, two hundred and twenty one (1,221) obtained from the twelve (12) selected manufacturing firms in South-South, Nigeria. The sample size of three hundred and one (301) respondents was derived from Israel Glenn at 5% error tolerance and 95% level of confidence. However, a total of three hundred and one (301) copies of the questionnaire were distributed to the various manufacturing firms in South-South, Nigeria. Out of this number, forty nine (49) copies of questionnaire were lost or wrongly filled with percentage ratio of 16.2% while two hundred and fifty two (252) copies of questionnaire were correctly filled and returned with percentage ratio of 83.7% and this served as the basis of the study. To test the hypotheses of this study, the study adopted simple regression model, analysis of variance (ANOVA) and Pearson Correlation Coefficient statistical tools of SPSS Version 23.0. From the result of the analysis, the findings showed that aggressive innovation has a significant effect on the performance of selected manufacturing firms in South-South, Nigeria, proactive innovation has a significant influence on the productivity of selected manufacturing firms in South-South, Nigeria, defensive innovation enhances value creation of the selected manufacturing firms in South-South, Nigeria, analytics innovation boosts competitive strength of the selected manufacturing firms in South-South, Nigeria and there is a significant relationship between risk-taking innovation and market share of selected manufacturing firms in South-South, Nigeria. The study concluded that innovation strategies positively and significantly influenced the effectiveness of the selected manufacturing firms in South-South, Nigeria and recommended that management of the selected manufacturing firms should intensify aggressive innovation and competitiveness at individual and firm's level, be more attuned towards the potentials and proactive capabilities of their subordinates, among many others.

Keywords: Innovation strategies organizational effectiveness manufacturing firms

Introduction

In the modern world, the concept of innovation is comprehensive. The term has its origin in the Latin word "innovatio", which means renewal (Katarzyna & Karolina, 2020 citing

Kopaliński, 2007). Innovation is also often traced from Latin word "novus", which means novelty (Borowski, 2011). In general innovation stands for the three-step process of an idea, invention and diffusion (Fadiah, 2016). Innovation

in economic development and entrepreneurship was popularized by Joseph Schumpeter, a German economist and in his view, comprises the elements of creativity, research and development, new processes, new products or services and advance in technologies (Camison & López, 2010). Similarly, during the last thirty years, innovation has evolved as the synonym for the development of nations, technological progress and driver of business success. Innovation nowadays is not simply the creation of something new but also a panacea for the solution of board range of problems

Observably, Rosli and Sidek (2013) see innovation as the creation of new wealth or the alteration and enhancement of existing resources to create new wealth. It is also seen as a process of idea creation, a development of an invention and ultimately the introduction of a new product, process or service to the market (Darroch, 2005). Presently, this concept is applied in every facet of social lives and activities which makes it more multidimensional and intricate. Beaver believes that innovation is an essential element for economic progress of a country and competitiveness of an industry (Beaver, 2010). Also, Kadarusman and Siti (2022) critically believed that innovation is a vital part of a firm's strategy since it constitutes one of the principles means to seek new business opportunities (Laban & Deya, 2019). Therefore, in a business context innovation can be conceptualized as an incidence (idea) for a product or a service (invention) which has not been there before and which results in a high

market acceptance (diffusion) (Dörr & Müller-Prothmann, 2014).

Innovation as a revolutionary change plays an important role for large and small firms and the capability to innovate is recognized today as one of the main aspects leading to a competitive advantage among manufacturing firms. Innovative firms seem to be less susceptible to cyclical sectarian and environmental pressures than non-innovative firms (Camison & López, 2010). Porter, (1990) argues that innovation is one of the most important competitive weapons and generally seen as a firm's core value capability because the global competition, which became particularly tough after 1980's, forced the company's focus on their business strategies, especially on innovations. Schumpeter (1934) defines innovation as the introduction of a product which is new to consumers or one of higher quality than existing products, new methods of production, the opening of new markets, the use of new sources of supply and new forms of competition, that lead to the restructuring of an industry" (Schumpeter, 1934). According to him, innovation leads to economic development through creative destruction and he further classified innovations into five types: new products; new processes (technological process innovation and organizational innovation); new sources of supply/raw materials; new markets and new ways organization. Hence, in recent times, due to the tough and increasing global competition, both individuals and manufacturing firms begin to evaluate and apply innovative strategies and entrepreneurial abilities with the purpose of gaining competitive

advantage as well to advance organizational efficiency, profitability and productivity (Yebolganova, 2016).

Thus, within the business context, innovation strategy is basically a strategic flexibility approach and represents the firm's strategy in adjusting to current conditions and not showing the strategic gap in any case. That is, it is choosing from the most possible alternatives and developing the most convenient action suitable in this present condition. When something happens out of the plan, innovation strategy leads the activities so that the enterprise gets closer to the determined goal. Innovation strategy from strategic management perspective is the activity that involves the required policies and processes, determining a new location and drawing a route that will end with the same goal (Tutar, Nart & Bingöl, 2015). Innovation strategy is also seen as a plan which will enable a company to achieve its long-term goals through the use of innovation, it helps a firm decide in a cumulative and sustainable manner about the type of innovation that best match corporate objectives (Dodgson, Gann & Salter, 2008).

In the context view, Henry Mintzberg states that a strategy is a plan which has some sort of consciously intended course of action and furthermore as a guideline to deal with a situation (Victoria, Renata, Robert & Stephan, 2021 citing Mintzberg 1987). Alternatively if strategy is defined as a guide for the allocation of resources in order to achieve the company's objectives, then: an innovation strategy guides decisions on how resources are to be used to meet a firm's objectives for innovation and thereby deliver value

and build competitive advantage (Dodgson et al, 2008). An innovation strategy can be described as a scope of actions for all innovative procedures in an organization which includes strategic goals and guidelines which have the vision to develop innovation (Goffin, Herstatt & Mitchell, 2012). Oke (2007) highlighted that innovation strategy designates to what degree and in what way a firm uses innovation to perform its business strategy and to enrich its performance. Hence, a planned and well communicated innovation strategy is necessary in order to achieve maximal effectiveness and efficiency.

However, a correct designed innovation strategy is an essential tool for a constant growth when the environment is dynamic, unpredictable, and competitive and especially in difficult times. In addition, to obtain a successful innovation, determination of a strategic orientation and top management team support are needed because innovation activities require the acquisition of highly specialized assets (sunk costs), the presence of highly-educated and skilled employees (knowledge-related intangible assets) and involve a significant degree of uncertainty (Talke, Salomo & Rost, 2010). Nevertheless, innovation strategies can be a simple one, where firms focus to introduce only one type of Schumpeterian innovations (i.e. product, process, market or technology) at a time, or the strategy can be a multifaceted one, where firms combine numerous types of simple strategies at a time. Whatever innovation strategy a firm chooses, the direct motivation can be a mixture of reasons, such as increased product performance,

increased productivity and/or lower production costs, while the underlying motivation is probably to preserve or increase competitive advantage in the existing or new market place (Marinidarraga & Cuartas-Martin, 2019).

Notably, strategic innovation represents the redesigning capacity of a firm to create new values for customers over the existing industry model and to generate new wealth for all stakeholders. Hence, there is need for manufacturing firms globally and nationally to understand the relationship between innovation strategies and firm effectiveness. This study therefore, intends to examine innovation strategies and organizational effectiveness with special reference to selected manufacturing firms in South-South, Nigeria.

In Nigeria, though the manufacturing sector is growing at a faster pace, still it has failed to a large extent with regards to its percentage share in the total GDP. An analysis of the GDP figures based on current prices obtained from the National Bureau of Statistics showed that the manufacturing sector's contribution to the economy dropped drastically. Data obtained from the Manufacturers Association of Nigeria (MAN) affirmed that Nigeria experienced its worst situation in manufacturing as 820 companies shut down or suspended production in 2018. This menace aforementioned has be attributed to the lack of innovation and that is why Global Innovation Index 2018 ranked Nigeria 118th position behind other African countries like South Africa (58), Mauritius (75) and Kenya (78) (Ann, Origho & Ukpere, 2014).

Consequent to the above challenge, the manufacturing sector in Nigeria have been experiencing cut-throat competition from both local and multinational companies as such Nigerian manufacturers found it difficult to stand against the competitors from foreign countries. The local companies cannot compete with the foreign counterparts in terms of product quality and other areas of marketing or strategic capabilities. The resultant effect is while the local industries performance is on the decline, the multinationals are booming. Nevertheless, companies competing in this fast-paced industry often fit and are effectively managing innovation ensure growth.

Similarly, technological changes have resulted to short product life cycle making it difficult for companies to maintain a sustained competitive advantage. However, firms that are constantly innovating have a higher chance of survival since a number of empirical studies have found a positive relationship between innovation and firm performance (Löfsten, 2014; Rosenbusch, Brinckmann & Bausch, 2011). This literature implies that innovations have transformational effects on operational efficiency which improves firm performance. Despite the numerous benefits, innovations have posed many challenges to manufacturing firms and blue-chip companies in South-South, Nigeria and initiatives frequently fail and successful innovators have a hard time sustaining their performance. A number of studies have also found that innovations have negative effects on performance indicators (Guisado, Guisado & Sandoval, 2013) while other researchers

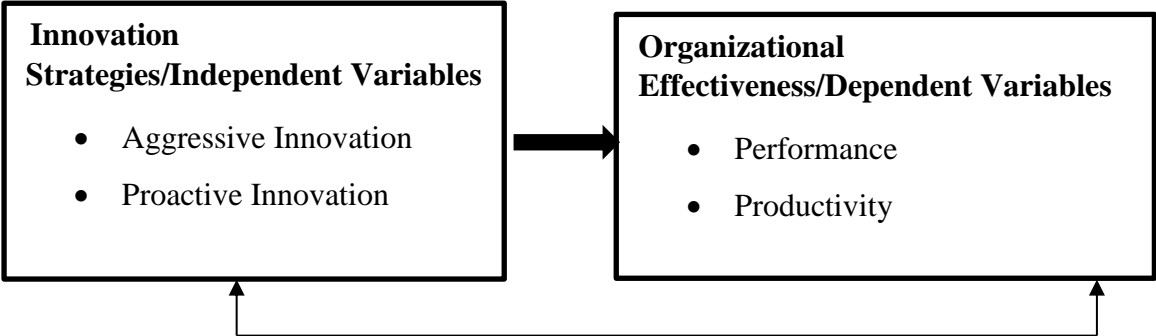
also argue that the influence is sector specific. These mixed results and alternative views from different countries and writers are mainly as a

result of lack of comprehensive analysis of how multiple innovations influence effectiveness indicators that formed the basis of this study

Literature Review

Conceptual Framework

Fig 2.1 Innovation strategies and organizational effectiveness framework



Source: (Researcher, 2024).

Innovation

Innovations have been studied from many different dimensions such as economics, business, technology, finance and management. The prevalent discussion among practitioners of innovation has created many approaches to conceptualize innovation. Innovation can be referred to as an act of introducing something new (process of innovation); or something introduced newly (product; or object). For example, Carol and Mavis (2007) described innovation as an idea, practice or object that apparent as recent by people or the adoption unit. Organizational innovation has been a dominant factor in maintaining worldwide competitiveness. It fuels organizational growth, drives future success. There are many important competition tools that firms use to ensure competitive advantage; the factors such as product and service quality, reducing costs, creating innovation, sustainability,

stabilization and innovative strategies have an important part while enterprises try to ensure competitive advantage. Innovation is also a long-termed performance indicator which is integrated with concepts like change, creativity, improvement and risks taking for the firms, competition mostly shapes around the customer. There are various definitions of innovation as a process. Wan, Ong and Lee, (2009) have defined innovation as a process that involves generation, adoption and implementation of new ideas or practices within the organization. Tidd, Bessant and Pavitt, (2007) consider innovation as a process of turning opportunity into new ideas and of putting these ideas into widely used practice. As shown by the study done by Aragón-Correa, García-Morales and Cordón-Pozo, (2007) innovation is based on multiple and simultaneous influences of individual and collective determinants.

Odumeru, (2013), posits that innovation is a strategy that is widely accepted by most organizations in contemporary economies. Robbins and Coulter (2006) defined innovation as the process of taking creative ideas and turning them into useful products or work methods. This is in contrast to invention which was defined by these authors as the process of developing new ideas. Parashar and Singh (2008) defined innovation as the ability to combine two or more knowledge. Tran (2008) on the other hand viewed innovation as the creative and commercial embodiment of organizational learning. Laudon and Laudon (2020) defined innovation as a potential new combination that results in radical breaks with the past, making a substantial part of accumulated knowledge obsolete. They viewed innovation within the context of manufacturing industries as a means of developing and sustaining core competencies through development of internal capabilities, set ups of research and development R&D departments and strategized research scopes and investments.

Odumeru, (2013) citing Wirtz, (2010), says innovation is the development and successful establishment of a technical, organizational, business related, institutional or social solution of a problem, which is perceived as groundbreaking and new, accepted by pertinent users and pursued by innovators in anticipation of an achievement. He differentiated innovation from invention using Thomas Edison's statement the real challenge in innovation was not

invention coming up with good ideas but in making, they work technically and commercially. Hauser, Tellis and Griffin (2006) stated that for success in innovation, organizations must take the needs of customers as paramount, and get them satisfied through innovative products/services. They therefore defined innovation as the process of bringing new products and services to a target market. Innovative activities introduce new products, create new demand and substitute for old products (UNIDO, 2008).

Innovation Strategies

Innovation strategy is basically a strategic flexibility approach and represents the firm's strategy in adjusting to current conditions and not showing the strategic gap in any case. Strategic innovation is an important factor for organization, sustainable competitive advantage and financial performance (Nybakk & Jenssen, 2012). Strategy innovation is seen as capable of creating organizational direction by charting the course of the firm's effort, by focusing the effort through promoting coordination, by providing people with an easy way to understand the organization and by providing consistency and reducing ambiguity (Mintzberg, Ahlstrand & Lampel, 2009). Strategic innovation refers to implementation of new ideas, processes, products or services (Bitar, 2008). Jin, Hewitt and Thompson (2009) define strategic innovation as a future-focused business development framework that identifies breakthrough growth opportunities, accelerates business decisions and creates near-term, measurable impact within the context of

a longer-term vision for sustainable competitive advantage. Strategic innovation challenges an organization to look beyond its established business boundaries and mental models and to participate in an open minded, creative exploration of the realm of possibilities. The significance of strategic innovation to an organization lies in its ability to supplant competition by generating more value in the long run (Jin, Hewitt & Thompson, 2009).

Strategic innovation alone is the acceptance of any idea or conduct related to a product, service, system, device, policy or program that is new to the adopting organization. It is the inclusion of any policy, program, structure, process or any market or product that a manager perceives to be true. It is also viewed as the generation, acceptance and implementation of new ideas, products, processes or services. It involves the successful implementation of creative ideas within an organization (Damanpour & Gopalkrishnan, 2010).

Strategic innovation is one of the fundamental instruments of growth strategies to enter new markets, to increase the existing market share and to provide the company with a competitive edge (Nybakk & Jenssen, 2012). Motivated by the increasing competition in global markets, companies have started to grasp the importance of strategic innovation, since swiftly changing technologies and severe global competition rapidly erode the value added of existing products and services. Thus, strategic innovations constitute an indispensable component of the corporate strategies for several reasons such as to apply more productive processes, to perform better in the

market, to seek positive reputation in customers' perception and as a result to gain sustainable competitive advantage. Innovations provide firms a strategic orientation to overcome the problems they encounter while striving to achieve sustainable competitive advantage (Hitt, Ireland, Camp & Sexton, 2009).

However, strategy is the direction and scope of an organization over the long term which achieves advantage in a changing environment through its configuration of resources and competences with the aim of fulfilling stakeholders' expectations. Innovation strategy in any business or industry involves aligning the product life cycles of the company with their various research and development activities. Oke and Goffin (2009) posited that the first stage in formulating an innovation strategy is to describe what innovation means to the institution or the focus areas in terms of innovation. By comprehending the drivers of innovation needs, a company can expand its focus areas for innovation.

Innovation strategy gives a clear direction and concentrates the effort of the whole organization on a common innovation end. The innovation strategy should specify how the significance of innovation will be communicated to all the employees to attain their buy-in and must openly reflect the significance that management places on innovation and the alignment to overall business strategy. The management of high performing institutions was tangibly and visibly committed to new product development and overtly formulated and communicated the institution's new product development strategy (Bessant & Francis, 2009). Markides (2007)

referred to strategic innovation as the strategy of breaking rules, implying that strategic innovation is an extreme on surviving in a volatile market. Gebauer, Worch and Truffer (2012) extended that support by stating that strategic innovation is a fundamentally different way of competing in an existing business and it starts with the innovation in one's business model leading towards a new way of playing the game. While other academics agree that the organization's business model is at the hearth of strategic innovation, not all researchers go till the extent of strategic innovation aiming at the disruption of the industry. Strategic innovation is about creation of new markets and leaps in customer value and reshaping the existing markets to achieve value improvements for customers (Odhiambo, 2008). Strategic innovation has a clear aim of achieving competitive advantage by creating customer value and new markets.

Aggressive innovation

Aggression is a noun that is generally defined as an act of aggressive behavior (concise oxford dictionary). The term aggression and aggressive behavior are used interchangeably. Aggressive forms of behavior can be characterized by verbal or physical attack. Aggression may be either appropriate (self-protective) or alternatively, it may destructive to the self and others (Abdimahad, 2023 citing Ferris & Gurriso, 1996). Some fields the term aggression refers to a range of behaviors that can result in both physical and psychological harm to one self, others, or objects in the environment. Aggression can take a

variety of forms, including: physical, verbal, mental, and emotional. While we often think of aggression as purely in physical forms such as hitting or pushing, mental aggression can also be very damaging (Cherry, 2017). Aggression has also been viewed as a heterogeneous concept encompassing a wide variety of behaviors (Bushman, DeWall & Anderson, 2011). Researchers have attempted to create more homogeneous categories in this behavioral domain by identifying subtypes of aggression based on statistical techniques such as factor analysis (Bushman et al., 2011).

Aggression is overt, often harmful, social interaction with the intention of inflicting damage or other unpleasantness upon another individual. It may occur either in retaliation or without provocation in humans, frustration due to blocked goals can cause aggression. Human aggression can be classified into direct and indirect aggression, whilst the first is characterized by physical or verbal behavior intended to cause harm to someone, the second one is characterized by a behavior intended to harm social relations of an individual or group (Veiga, Aranda, Stein, Franci, Miczek, Lucion & Almeida, 2011).

Aggression can have adaptive benefits or negative effects. Aggressive behavior is an individual or collective social interaction that is a hostile behavior with the intention of inflicting damage or harm. Two broad categories of aggression are commonly distinguished, one includes effective and hostile, reactive, or retaliatory aggression that is a response to provocation, and the other includes instrumental, goal

oriented or predatory, in which aggression is used as a mean to achieve a goal (Veiga, et al., 2011). Aggressiveness measures the firm's ability to engage organizational resources in executing aggressive strategies and the pursuit of increased market share as a means of achieving business unit profitability. The aim of the firm is to possess higher market share ahead of competitors (Abiodun, 2009). Firms exhibit Aggressiveness through research and development. Resource dedication, investments and innovativeness point out Aggressiveness of a firm. Aggressiveness allows a firm to allocate its resources to improve market position at a relatively faster rate than its competitors. Aggressive firms are resolute to be market leaders (Omoruyi & Chima 2020 citing Venkatraman, 1989)

Competitive Aggressiveness, Innovation and Profitability (innovation as a mediator)

According to Organization for Economic Co-operation and Development (2009), innovation is the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organizational method in business practices, workplace organization or external relations. Innovation refers to creating something new and implementing it successfully at a market. Innovation in firms takes place when knowledge is commercialized, for example in the form of new products, services, processes, or business models (Baldwin & Gellatly, 2008).

Innovation can be broadly categorized as radical or incremental, where radical innovations are new technologies, processes or new products that fill needs perhaps not yet recognized while incremental innovations improves what already exists (Chetty & Stangl, 2010). The distinction here is about the degree of change associated with the innovation and the resulting impact on a firm's perceived risk and existing core competencies. The OECD (2009) identified four types of innovation as product innovation, process innovation, marketing and organizational innovation. Product innovation means introducing the new or significantly improved products or services (Polder, Leeuwen, Mohnen & Raymond, 2010).

For product innovation, the product must either be a new product or significantly improved with respect to its features, intended use, components and material. Change in design that brings significant change in the intended use or characteristics of the product is also considered as product innovation (OECD, 2009). It is also argued that the reason why firms aim product innovation is to bring efficiency in the business (Polder et al. 2010). Process innovation means improving the production and logistic methods significantly or bringing significant improvements in the supporting activities such as purchasing, accounting, maintenance and computing (Polder et al., 2010). OECD (2009) defined the process innovation as implementation of the production or delivery method that is new or significantly improved. This includes significant changes in techniques,

equipment and software. Process innovations can be intended to decrease production unit costs, to increase quality, or to produce or deliver new or significantly improved products. Marketing innovation is defined as the identification of new markets and finding out how they are better served or how they may become more receptive to the available products (Shergill & Nargundkar 2015).

Innovation and Organizational Performance

Empirical evidence which connects innovation with organizational outcomes such as financial performance abounds in literature. In the study of a business operating in Istanbul, Turkey, Gokmen and Hamsioglu (2011) discovered the existence of a relationship between innovation and organizational performance. Costa and Cabrel (2010) studied the effect of differentiated knowledge source and learning process on technology capacity to innovate and competitive performance using selected Brazilian export companies. The study found the existence of a positive relationship between knowledge, innovative capabilities and competitive performance. Lim, Schultmann and Ofori, (2010) studied the effect of innovation on performance of construction firms using data statistical data across 18 Organization for Economic Cooperation and Development (OECD) countries and expert interviews in Singapore. They discovered that due to the fact that construction projects are awarded by clients based on lowest cost, innovation

appears to be an unfeasible competitive strategy.

However, their study revealed that construction firms can develop their competitive advantage through manipulating innovations that consumers are willing to pay for and innovations that would reduce construction costs. They also recommended that construction firms first utilize quality improvements to exploit consumers' willingness to pay for innovative products. This initiative would enable construction firms to improve their finances for innovation and develop their "brand" in construction products. Sustainable competitive advantage could then be firmly established when construction firms engage in productivity improvements that lead to lower construction costs and/or faster completion times. Using DHL as a case study, Wirtz (2010) found the existence of a positive relationship between network innovation, competitiveness and financial performance.

Organizational Effectiveness

In the 1980s, organizational effectiveness became more prominent and switched to being a concept from the status of a construct (Henry, 2011). This concept is related to issues such as the ability of an organization to access and absorb resources and consequently achieve its aims (Federman, 2009). As Gigliotti (1987) cited by Giti and Suhaida (2012) said, a unit which is individually ineffective in terms of cooperation with the rest of the organization is doomed to failure. Cameron (1978) cited by Giti et al.,

(2012) pointed out that organizational effectiveness is the proficiency of the organization at having access to the essential resources. However, McCann (2004) cited by Giti et al., (2012) noted it as the criterion of the organization's successful fulfillment of their purposes through core strategies.

Organizational effectiveness is regularly viewed as the main factor inside business and training area, and also the way to survival in associations of every assorted type in the twenty-first century (Rieley, 1993 cited by Amin & Shila, 2015). The investigation of organizational effectiveness has turned into an extremely vital zone of exploration because of the predominant place associations possess in our lives (Ghorpade, 1970 cited by Amin et al., 2015). Zammuto (1982) cited by Amin et al., (2015) showed that there has been a distinction of thought on the best way to characterize organizational effectiveness including characterizing it as "the accomplishment of objectives, objective achievement without forcing strains on the authoritative framework, and as far as meeting criteria set by the constituencies of an association". There are three approaches that have been most normally utilized within the investigation of organizational effectiveness namely the goal approach, the systems resource approach, and the process approach. A fresher approach has also emerged called the multiple constituency approach, which is a mixture of the initial three. In the model of goal approach, the effectiveness of an association "is measured as stated by the capability of the association to attain desired objectives. In the systems approach to organizational

effectiveness, which drew on the general frameworks hypothesis, effectiveness "is evaluated regarding the association's capability to secure rare resources. The process approach points out to the inside procedures and general working inside an association; for example, the work environment and worker fulfillment. A suitable elective to the objective, frameworks, and process approaches for examining and measuring organizational effectiveness is the multiple constituencies (MC) approach. This model is accepted to have been advanced in an exertion to endeavor to improve the shortcomings of the objective, methodology, and framework displays by joining the two viewpoints (Zammuto, 1982 cited by Amin et al., 2015).

Methodology

In this study, a survey design was adopted to obtain accurate data based on the opinion of the respondents and the researcher used primary data to obtain information from the respondents. Survey research design is basically used when a researcher is planning to undertake a detailed study and sample the option of the respondents that was involve in the study. This design aided the researcher to ascertain the views, ideas and feelings of those that are directly concerned with the project. The researcher mainly used primary source of data on the course of gathering data from the respondents. The primary data for this study was collected via the use of questionnaire and formal discussions. To obtain information from the respondents, copies of questionnaire were distributed to the staff of the selected

manufacturing firms in South-South, Nigeria. Population is defined as an aggregate or totality of all the objects, subjects or members that conform to a set of specifications. The population of this research comprised of the staff of the twelve (12) selected manufacturing firms in South-South, Nigeria. Hence, the choice of these manufacturing firms was based on the firms’ size, financial stability, informed reality of their operations and their duration in existence. The population of the study was 1221 . The researcher adopted the Israel Glenn (2003) formula who proposed for +/-3%, +/-5%, +/-7% and +/-10% precision levels where the confidence level is 95% in determining the sample size of 301.

The researcher used both inferential and descriptive statistics to analyze the data for the study. In order to realize the objectives of the study, objectives (i) and (ii) were analyzed using simple linear regression model to examine the effect of aggressive innovation on the performance of the selected manufacturing firms in South-South, Nigeria and evaluate the influence of proactive innovation on productivity of the selected

manufacturing firms in South-South, Nigeria. Objectives (iii) and (iv) were analyzed using Analysis of Variance (ANOVA) to determine the degree to which defensive innovation enhance value creation of selected manufacturing firms in South-South, Nigeria and ascertain the extent to which analytics innovation boost competitive strength of selected manufacturing firms in South-South, Nigeria while objective (v) was analyzed using Pearson Correlation Coefficient to establish the relationship between risk-taking innovation and market share of selected manufacturing firms in South-South, Nigeria.

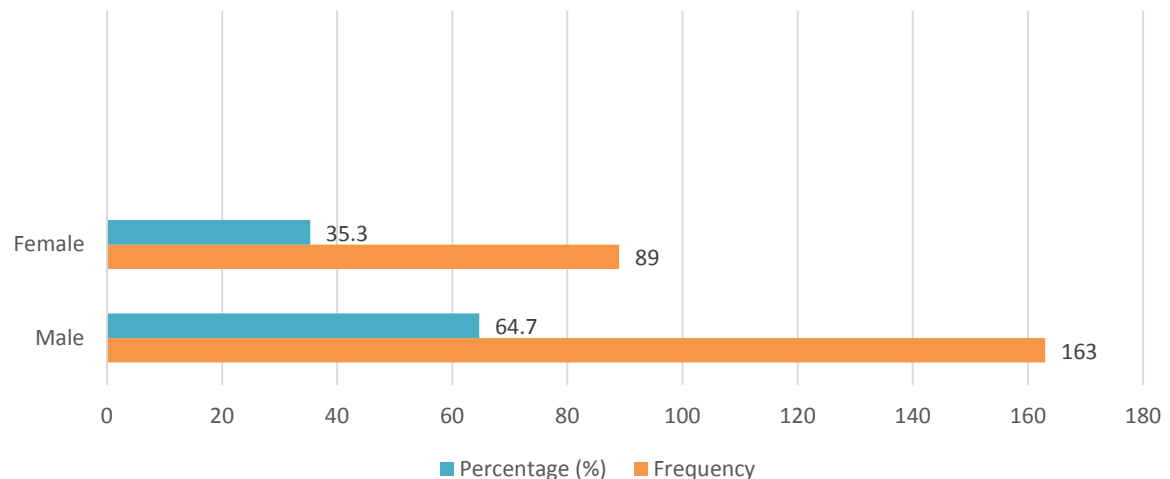
Results and Discussions

Table 1 and figure 1 revealed that a total of three hundred and one (301) copies of the questionnaire were distributed to the various manufacturing firms in South-South, Nigeria. Out of this number, forty nine (49) copies of questionnaire were lost or wrongly filled with percentage ratio of 16.2% while two hundred and fifty two (252) copies of questionnaire were correctly filled and returned with percentage ratio of 83.7% and this served as the basis of the study.

Table 1: Respondents’ distribution by gender status

Gender Status	Frequency	Percentage (%)
Male	163	64.7
Female	89	35.3
Total	252	100

Source; Field Survey, 2024



Analysis of respondents' distribution by gender status

Table 4.1 indicated that majority 64.7% represent male respondents while 35.3% represents the female respondents. This shows that the difference in gender

distribution is high because of the nature of job in the studied organizations. Hence, male constitute the study more than female.

Respondents' distribution by educational qualification

Educational Level	Frequency	Percentage (%)
M.Sc.	33	13.1
B.Sc./PGD/HND/ND	102	40.5
FSLC/SSCE/GCE	73	29.0
Others	44	17.5
Total	252	100

Source: Field Survey, 2024

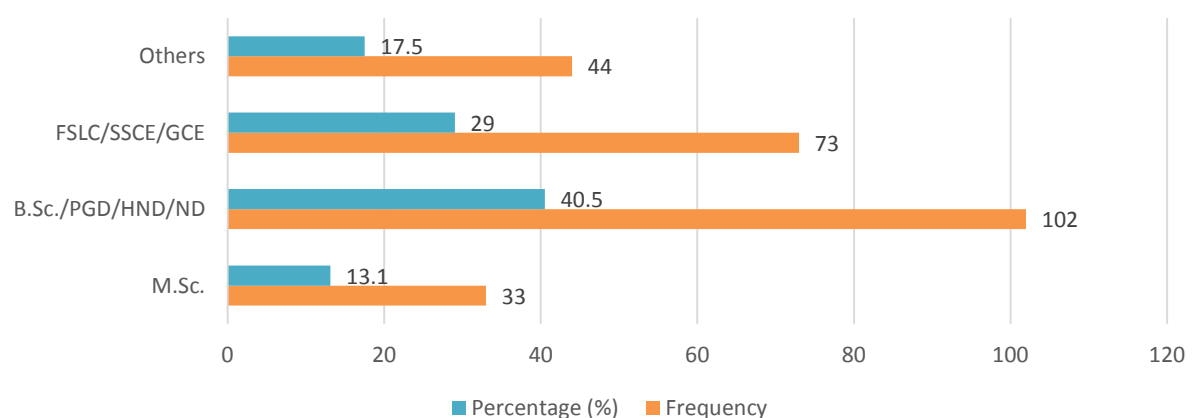


Figure 2: Analysis of respondents' distribution by educational qualification

Table 4.5 and figure 4.5 indicated that majority 40.5% were B.Sc./PGD//HND/ND holders followed by 29.0% who were FSLC/SSCE/GCE holders, 17.5% were holders of other qualifications while holders of M.Sc. represents 13.1%. This finding showed that majority of the respondents were educated.

Data Presentation

Table 3: Examine the effect of aggressive innovation on the performance of the selected manufacturing firms in South-South, Nigeria

(N = 252)

RESPONSES	SA 5	A 4	UN 3	D 2	SD 1	TOTAL	MEAN	Std. Dev.
Firms that do things differently by reconfiguration and redefining the product and distribution channels overcome its rivals	116	87	29	11	9	1046	4.2	.057
Firms that overcome its competitors set ambitious market-share goals and also try to achieve them	112	92	21	13	14	1031	4.1	.831
Successful aggressive firms requires defined markets in terms of the number, sizes and types of their customers, as well as the breadth of their product line	122	90	22	10	8	1064	4.2	.033
Aggressive firms sacrifice profits in order to introduce a new product to the market earlier than their competitors	128	85	22	8	9	1071	4.3	.814

Source: Field Survey, 2024

Decision Rule:

- If Mean < 3.5, the effect is not high or the respondents do not agree
- If Mean ≥ 3.5, the effect is high or the respondents agree

Table 4.7 showed the effect of aggressive innovation on firm performance of the selected manufacturing firms in South-South, Nigeria. Majority of the respondents with the highest mean scores strongly agreed that aggressive firms sacrifice profits in order to introduce a new product to the market earlier than their competitors

(x=4.3), successful aggressive firms requires defined markets in terms of the number, sizes and types of their customers, as well as the breadth of their product line (x=4.2), firms that do things differently by reconfiguration and redefining the product and distribution channels overcome its rivals s (x=4.2) and firms that overcome its competitors set ambitious market-share goals and also try to achieve them (x=4.1).

Therefore, since the means of all the responses were ≥ 3.5 , this indicated that aggressive innovation improves firms' performance.

Table 4.8: Evaluate the influence of proactive innovation on productivity of the selected manufacturing firms in South-South, Nigeria

(N = 252)										
Responses			SA 5	A 4	UN 3	D 2	SD 1	TOTAL	MEAN	Std. Dev.
Proactive firms seize market opportunities and make innovation to get the advantages of them before their competitors			126	82	22	13	9	1059	4.2	.822
Proactive firms seize initiative and acting opportunistic to shape the environment to affect trends and create demand			118	99	19	-	16	1059	4.2	.803
Using new product/service approach to compete enhance firms competitive advantage			116	93	26	10	7	1057	4.2	.812
Encouraging innovation activities and continue research on new product opportunities increased productivity			122	86	24	9	11	1055	4.2	.807

Source: Field Survey, 2024

Table 4.8 showed the influence of proactive innovation on productivity of the selected manufacturing firms in South-South, Nigeria. Majority of the respondents with the highest mean scores strongly agreed that proactive firms seize market opportunities and make innovation to get the advantages of them before their competitors ($x=4.2$), proactive firms seize initiative and acting opportunistic to shape the environment to affect trends and create

demand ($x=4.2$), using new product/service approach to compete enhance firms competitive advantage ($x=4.2$) and encouraging innovation activities and continue research on new product opportunities increased productivity ($x=4.2$). Therefore, since the means of all the responses were ≥ 3.5 , this indicated that proactive innovation positively influenced productivity

Test of Hypotheses

H0₁: Aggressive innovation has no significant effect on the performance of selected manufacturing firms in South-South, Nigeria

Table 4.12: Regression analysis on aggressive innovation and organizational productivity

Variable	Parameters	Coefficient	Std error	T – value
Constant	β_0	1.298	0.105	7.343
A1 (X_1)	β_1	0.739	0.024	3.448**
R-Square		0.877		
Adjusted R – Square		0.851		
F – statistics		80.228***		

Source: Field Data, 2024

Table 4.12 showed the coefficients of aggressive innovation and organizational productivity. The coefficient of multiple determinations (R^2) was 0.851 which implies that 85.1% of the variations in dependents were explained by changes in the independent variable while 14.9% were unexplained by the stochastic variable indicating a goodness of fit of the regression model adopted in this study which is statistically significant at 1% probability level.

The coefficient of aggressive innovation was statistically significant and positively related to organizational productivity at 5 percent level (3.448**). Therefore, we reject null hypothesis and uphold the alternative hypothesis that aggressive innovation has a significant effect on the performance of selected manufacturing firms in South-South, Nigeria.

H0₂: Proactive innovation has no significant influence on the productivity of selected manufacturing firms in South-South, Nigeria

Table 4.13: Regression analysis on proactive innovation and organizational performance

Variable	Parameters	Coefficient	Std error	T – value
Constant	β_0	2.033	0.118	8.761
PI (X_1)	β_1	0.794	0.027	5.639**
R-Square		0.782		
Adjusted R – Square		0.766		
F – statistics		83.183***		

Source: Field Data, 2024

Table 4.13 showed the coefficients of proactive innovation and organizational performance. The

coefficient of multiple determination (R^2) was 0.766 which implies that 76.6% of the variations in dependents were explained by changes in the independent

variable while 23.4% were unexplained by the stochastic variable indicating a goodness of fit of the regression model adopted in this study which is statistically significant at 1% probability level.

The coefficient of proactive innovation was statistically significant and positively related to organizational performance at 5 percent level (5.639**). Therefore, we reject null hypothesis and uphold the alternative hypothesis that proactive innovation has a significant influence on the productivity of selected manufacturing firms in South-South, Nigeria.

Discussion of Findings

Hypothesis one simple linear regression analysis indicated that aggressive innovation has a significant effect on the performance of selected manufacturing firms in South-South, Nigeria.

The study further revealed that majority of the respondents with the highest mean scores strongly agreed that aggressive firms sacrifice profits in order to introduce a new product to the market earlier than their competitors ($x=4.3$), successful aggressive firms requires defined markets in terms of the number, sizes and types of their customers, as well as the breadth of their product line ($x=4.2$), firms that do things differently by reconfiguration and redefining the product and distribution channels overcome its rivals ($x=4.2$) and firms that overcome its competitors set ambitious market-share goals and also try to achieve them ($x=4.1$).

This findings are in line with the findings of Aroyeun, Adefulu and Asikhia (2018) who carried out a study

on the effect of competitive aggressiveness on competitive advantage of small and medium scale enterprises (SMEs) in Ogun State, Nigeria. The findings of this study revealed that competitive aggressiveness has positive significant effect on competitive advantage to enhance their competitive advantage which is critical for organizational performance, and that maintaining good relationships with clients is an important factor to be considered. The findings also aligns with the study of Patrick (2018) on the competitive aggressiveness and organizational profitability of hotels in Port Harcourt, Nigeria. The study concludes competitive aggressiveness has a significantly influences organizational profitability and recommended that hotels should build on their distinctive competitive advantage so to sharpen their competitive aggression in the industry of SMEs and recommended that entrepreneurs should employ appropriate price control mechanisms, invest heavily in marketing, advertisement, sales promotion and aggressive

Hypothesis two simple linear regression analysis indicated that proactive innovation has a significant influence on the productivity of selected manufacturing firms in South-South, Nigeria. The study further revealed that majority of the respondents with the highest mean scores strongly agreed that proactive firms seize market opportunities and make innovation to get the advantages of them before their competitors ($x=4.2$), proactive firms seize initiative and acting opportunistic to shape the environment to affect trends and create demand ($x=4.2$), using

new product/service approach to compete enhance firms competitive advantage ($x=4.2$) and encouraging innovation activities and continue research on new product opportunities increased productivity ($x=4.2$). This findings is tandem with the findings of Oni (2012) who investigated the relevance of entrepreneurial proactiveness on business performance: Nigerian Companies experience. The findings showed that the enterprise on high entrepreneurial proactiveness responded positively to performance measures with consistent increase in size and employment of qualified and competent personnel and recommended that; to attain a high level of efficiency companies should maximize the performance measures, be socially responsible by concentrating on entrepreneurial proactiveness, operations involving entrepreneurial concerns could reduce producer or service waste and companies should consider entrepreneurial strategies as part of steps for improving performance. The finding also supported the findings of LawanShamsu and Fakhrul (2015) on the relationship between vision, innovation, proactiveness and risktaking on SMEs performance in Nigeria. The study revealed a positive and significant relationship between vision, innovation, proactiveness and SMEs performance in Nigeria and recommended that empirical research need to be conducted to examine the extent of the relationship between vision, innovation, proactiveness and risk-taking on SMEs performance in Nigeria.

Conclusion and Recommendations

The study therefore concludes that:

- i. Aggressive innovation has a positive significant effect on the performance of selected manufacturing firms in South-South, Nigeria.
- ii. Proactive innovation has a positive significant influence on the productivity of selected manufacturing firms in South-South, Nigeria

Therefore the study recommends that:

- Management of the selected manufacturing firms should continuously intensify aggressive innovation and competitiveness at individual and firm's level. This will enhance their prompt response to rival's every move in industry. Also, there is need to improve and sustain innovative activities, be flexible to change through innovative ideas by the manufacturing firms as this will enhance firms' overall performance.
- Management of the firms should be more attuned towards the potentials and proactive capabilities of their subordinates and should be more flexible with regards to shared responsibilities and roles such that workers are offered the required opportunities and platforms to be proactive in their roles and responsibilities. Also, management needs to be proactive in reacting to environmental changes and through their culture should allow employees to showcase their proactive skills

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