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EMPLOYEES' MULTITASKING CAPACITIES AND ORGANIZATIONAL PERFORMANCE: THE NIGERIAN EXPERIENCE

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ABSTRACT

The study examined the relationship between employees' multitasking capacity and organisational performance. A total of 97 managers and supervisors from fifteen randomly selected deposit money banks in Rivers State constituted the sample for this study. Employing a quasi-experimental research design, the study utilised a cross-sectional survey method for data collection. Analysis of the gathered data was conducted using the Statistical Package for Social Sciences (SPSS) Version 25, employing structural equation modelling (SEM) via the AMOS package. The study uncovered a notable and statistically significant correlation between employees' multitasking capacity and organizational performance metrics. Specifically, a positive and significant association was observed between simultaneous task management and the indicators of organisational performance, namely output and cost minimisation. Similarly, the study identified a positive and significant relationship between mental juggling and organizational performance metrics, including output and cost minimization. Drawing from these outcomes, the study concludes that the multi-tasking capabilities of employees significantly contribute to enhancing organizational performance within the Nigerian banking sector. Specifically, simultaneous task management and mental juggling emerged as pivotal factors in augmenting both output and cost-minimization efforts within the Nigerian banking landscape. The theoretical and managerial implications stemming from these findings were thoroughly examined and discussed, shedding light on the potential ramifications for organizational theory and management practices within the Nigerian banking industry.

Keywords: Cost Minimization, Deposit Money Banks, Mental Juggling, Multi-tasking Capacity, Nigeria, Organizational Performance, Output, Simultaneous Tasking.

Introduction

Organizations are constantly in search of strategies to improve their performance. Organizational performance is the essence of the existence of any enterprise (Rylkova, 2015). Performance, however, is quite a broad and ambiguous concept because of its subjective nature. Thus, an organization's objectives are often assessed, and they usually vary from one company to another (Juliana & Maria, 2016). Nevertheless, the concept is often associated with realising economic or financial goals and satisfying customers' needs (Rylkova, 2015). Managers began

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to understand that an organization is successful if it accomplishes its goals effectively and uses its minimum resources efficiently.

Managers and pertinent stakeholders of enterprises are perpetually striving for the amelioration of the organization's performance owing to its pivotal role in the organizational realm. Augmented firm performance not only enhances the remuneration of its workforce but also curtails employee turnover, elevates the standard of living for personnel by ensuring and enhancing income security, furnishes superior quality products to customers, and fosters the establishment of environmentally sustainable production facilities (Erasmus, 2008). Furthermore, heightened profitability translates to increased future investments, thereby engendering job opportunities and bolstering individuals' income. Empirical evidence further attests that with the enhanced performance of an organization, expansion and development of the enterprise are assured, safeguarding the future of employees, augmenting and securing shareholder returns on investment, ensuring sustained collaboration with suppliers, and augmenting tax revenues while bolstering GDP growth for the national economy.

The paramount objective of all managerial endeavors is to attain maximal performance and productivity at minimal expenditure. One strategy to achieve this goal is by augmenting the volume of tasks accomplished by an employee within a stipulated timeframe; in essence, leveraging multi-tasking to heighten performance and productivity. Pairdon and Kaufmann (2010) delineated multi-tasking as the concurrent engagement in two or more tasks. Multitasking holds significance as it directly impacts workplace performance and output. If heightened performance is the sought-after outcome, then the adoption of multitasking methodologies should be embraced to optimize it. Nonetheless, certain scholars have underscored various adverse effects of multi-tasking within organisations, encompassing cognitive overload, elevated error rates, psychological strain, and burnout. Within the organisational milieu, multi-tasking is purported to hamper productivity owing to interruptions and the time required to regain focus. Nevertheless, scholars advocate that judiciously managed multi-tasking implementation confers numerous advantages upon organisations. When practised and managed astutely, multi-tasking can enhance work efficiency and efficacy (Kraushaar & Novak, 2010; Dindar & Akbulut, 2016). Kapadia and Melwani (2020) state that multi-tasking augments creativity by instigating activation and cognitive flexibility. Lazear and Gibbs (2014) posit that multi-tasking proves advantageous when workers possess skills conducive to completing several related or interconnected tasks, facilitating on-the-job training and diminishing transaction costs.

In light of the enormous concerns to improve the organisation's performance for different stakeholders, many empirical works have advanced theorising and postulating different approaches and models in their diverse scholarships on how to enhance or improve the organisation's performances. These postulations and models include but are not limited to privatisation and liberalisation (Suevosi, 1998), Productivity Measure (Madden & Savage, 1999; Giokas & Pentzararopoulos, 2000; Rushdi, 2000, 2002; Lam & Lam, 2005), Labor Factor Productivity and Enhancement (Lam and Lam, 2005, Calabrese, Campisi and Mancuso, 2002), and Pricing (Uri, 2000, 2002).

Based on the literature examined so far, we are inclined to believe that the scholars' interest in improved performance has been restricted to privatisation and liberalisation, productivity

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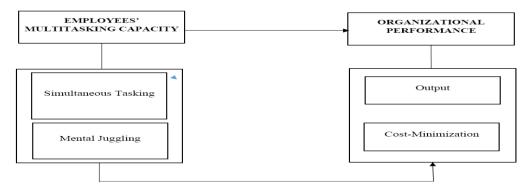
measures, labour productivity, and pricing. Others who have examined multi-tasking differently were more concerned about the negative impact, including cognitive overload, a high risk of error, and psychological burnout. However, some scholars either overlooked these negative aspects or were not assertive in their views on its positivity. Thus, these differing views have necessitated this study.

Given the plethora of research work evident in the management literature on our subject matter, it is obvious that there is no single generally accepted effective model established that captures the one best approach for improving the performance of an organization. At best, different scholars or their different scholarship make different propositions or prescriptions on improving the performance of the organization based on their standpoint or background of study. This probably explains the volume of literature on the subject matter (Berger and Patti, 2006). These studies and existing literature did not consider multi-tasking as a factor, nor did they provide any empirical knowledge on the role of multi-tasking in improving the performance of the organization, yet employees' multi-task in the discharge of their work role. The closest attempt to this is evident in the studies by Rekart (2011); Konig et al. (2005); Paridon and Kaufmann (2010); Schottner (2012); Logies, Trawley and Law (2011) where the issues examined were not within the context of the bank, nor the same work setting and environmental circumstance.

Fundamentally, this study is designed to establish a more conclusive and confident standpoint grounded in empirical data concerning the correlation between multitasking and organizational performance within deposit money banks in Nigeria. Despite the escalation of human multitasking in contemporary times, its implications on both individual and organizational performance remain ambiguous. Diverging from numerous prior studies, our aim is to address the recognized gaps in the existing literature by probing into the relationship between employees' multitasking capacities and organizational performance specifically within the deposit money banks in Nigeria.

Conceptual Framework

Figure 1 below presents the conceptual framework for this study. The dimensions of employee multitasking capacities were adapted from Capdeferro, Romero, and Barberà (2014). The dependent variable in this study, organizational performance, is measured using output and cost minimization.



Source: Conceptualized by the Researchers

Fig. 1: Conceptual framework showing the hypothesized relationship between employees' multi-tasking capacities and organizational performance.

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2.0 REVIEW OF RELATED LITERATURE THEORETICAL FRAMEWORK

The systems theory is believed to have its roots in economics, engineering, and biology. Its core focus lies in elucidating how interconnections can be generalized across diverse organizational frameworks to comprehend the organization's rapport with its surroundings (Amagoh, 2008; Onday, 2016). Initially proposed by Ludwig von Bertanlanffy in 1940, the concept of General Systems Theory (GST) primarily delves into the operational mechanisms of systems. It assimilates with other systems by identifying common patterns and processes (Amagoh, 2008; Kebaya et al., 2015). Systems can be categorized as either open or closed.

Applying the dichotomy of closed and open systems to social organizations poses challenges, as most exhibit partial openness and partial closure (Itkin and Nagy, 2014). The systems theory underscores the significance of boundaries, the environment, feedback, and adaptive responses. However, this emphasis implies that management serves as the central control hub, which can be a limitation, as it overestimates a management team member's ability to command events and actions (Beeson & Davis, 2000). Informed by systems theory, managers are advised to concentrate on the role played by each organizational component rather than addressing them in isolation. This approach underscores both interpersonal and group behavioral dynamics, fostering a culture of cooperation (Hannagan & Bennett, 2008).

From a systems theory perspective, an organization is perceived as a social system comprising individuals who collaborate within a structured framework. They draw resources, personnel, and finances from their environment and subsequently contribute back to that environment through the products or services they provide (Brenes et al., 2008).

EMPLOYEES' MULTITASKING CAPACITY

An essential trait of an ideal employee lies in their ability to multitask, which involves handling multiple tasks simultaneously. This increasing demand for multitasking among employees is primarily influenced by two factors: firstly, the complexity and volatility of the environment we operate in, which is becoming progressively intricate and, in some sectors, hypercompetitive. Secondly, the rapid advancements in modern technologies, mobile applications, and social media compel employees to acquire new skills. Consequently, multitasking has become pervasive in educational institutions, among students, and in the business sphere due to the demands of contemporary work environments (Courage, Bakhtiar, Fitzpatrick, Kenny, and Brandeau, 2015).

Carrier, Rosen, Cheever, and Lim (2015) contend that multitasking is virtually ubiquitous, representing a significant phenomenon observed in present-day organizations. Explored from various scientific perspectives, particularly in management and psychology, multitasking manifests in diverse forms, creating intricate structures with multiple causes and effects. At its core, multitasking involves simultaneously carrying out two or more tasks, each with distinct objectives (Carrier et al., 2015). While concentration is crucial for effective task execution, the human mind possesses the capability to handle multiple tasks concurrently (Ong and Gupta, 2016). However, transitioning between tasks efficiently proves challenging, necessitating effective time management. Consequently, it's crucial to identify and mitigate factors that impede concentration and multitasking efficiency. Nonetheless, there's ongoing debate in

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management literature regarding the merits and drawbacks of multitasking. Proponents argue that multitasking enhances efficiency and productivity, especially in hypercompetitive environments, by bolstering flexibility, output, and learning capabilities (Vveinhardt and Sroka, 2022), particularly prevalent among younger generations (Sparrow, Liu, and Wegner, 2011; Lui and Wong, 2012; Mattarelli, Bertolotti, and Incerti, 2015). Conversely, opponents posit that human information processing systems have limited capacities, leading to errors, heightened stress, reduced productivity, and poorer performance (Rosen, 2008; Bowman, Levine, Wait, and Gendron, 2010). Despite the divergent views, individual differences in effective multitasking persist due to the varied and complex nature of tasks, activities, and interpersonal dynamics (Pollard & Courage, 2017).

Moreover, multitasking is not universally beneficial. Certain forms, like searching the internet during phone conversations to address raised queries, can be advantageous. Additionally, as technological skills expand, individuals tend to take on more tasks, further entrenching themselves in the multitasking trap (Vveinhardt and Sroka, 2022). Multitasking fosters loyalty to employers by augmenting the sense of responsibility for organizational activities, enabling employees to accomplish multiple objectives and engage in diverse activities simultaneously. However, it's essential to acknowledge that multitasking comes with costs, particularly for those who engage in it extensively. Ophir, Nass, and Wagner (2009) observed that frequent multitaskers experience higher cognitive switching costs between activities compared to occasional multitaskers. Individuals prone to impulsivity are more inclined to multitask, driven by a heightened sensitivity to rewards and a reduced fear of failure (Sanbonmatsu et al., 2013), indicative of lower sensitivity to losses.

Simultaneous Tasking

The phenomenon of Simultaneous Multi-tasking, also known as Parallel Strategy, occurs when tasks coincide or exhibit perfect temporal overlap. Achieving true parallel multi-tasking is challenging due to the inherent difficulty of simultaneously attending to multiple activities, often resulting in continuous switching of attention among different tasks. However, the definition of simultaneous multi-tasking varies depending on the time frame considered; tasks occurring within the workday or workweek are deemed simultaneous. This dimension of multi-tasking has been extensively explored concerning external interruptions and the impact of notification systems (McCrickard et al., 2003a, 2003b; McFarlane, 2002; McFarlane & Latorella, 2002; Oulasvirta and Saariluoma, 2004, 2006; Trafton et al., 2003). Interruptions typically have a detrimental effect on performance, particularly when a secondary task disrupts the primary task, necessitating additional time and effort to resume the primary task, ultimately leading to performance degradation (Oulasvirta and Saariluoma, 2004, 2006; Bailey and Konstan, 2006).

Subsequently, numerous studies have investigated the disruptive effects of interruptions, revealing that increased complexity in interrupting tasks prolongs resumption times (Hodgetts and Jones, 2006) and reduces primary task accuracy (Gillie & Broadbent, 1989). Cades and colleagues demonstrated that interruption complexity, characterized by the number of mental operations required to complete a task, diminishes rehearsal opportunities in the primary task, heightening interruption disruptiveness (Cades et al., 2007, 2010). Immediate interruptions, as

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identified by McFarlane (2002), are particularly detrimental to performance compared to negotiated, mediated, or scheduled interruptions. Forced interruptions during tasks disrupt thought processes and task control, leading to performance deterioration (Altmann & Trafton, 2002).

Contrarily, Bogunovich and Salvucci (2011) introduced the concept of cognitive load interruptibility, proposing that forced interruptions are less disruptive when cognitive load is low. Task difficulty, a key determinant of cognitive load, influences interruptions' impact, with complex tasks impeding users' cognitive abilities and task performance (Gillie & Broadbent, 1989). Notably, interruptions can either enhance or impede performance depending on task complexity. For instance, while interruptions may aid performance on simple tasks, they detrimentally affect complex tasks, disrupting concentration and yielding negative outcomes (Altmann & Trafton, 2002; Speier et al., 2003).

Mental Juggling

Mental juggling involves managing multiple tasks simultaneously or voluntarily interrupting a current task to pursue another. Jin and Dabbish (2009) identified seven categories of internal interruptions that prompt task switching, including adjustment, break, routine, wait, inquiry, trigger, and recollection. People may switch tasks due to fatigue, habit, or the need for information, among other reasons. Research on psychology has also explored mental juggling, with studies revealing that people switch tasks when tasks become unrewarding or when subgoals are completed (Payne et al., 2007). Individuals tend to switch tasks at low cognitive load points, minimizing the disruptive effects of interruptions (Bogunovich & Salvucci, 2011; Bailey & Iqbal, 2008).

While complex tasks pose challenges for task resumption, task difficulty influences task selection, order of execution, and task interleaving, with individuals strategically allocating attention to maximize performance outcomes (Yeung, 2010; Duggan et al., 2013; Janssen & Brumby, 2010; Janssen et al., 2011).

ORGANIZATIONAL PERFORMANCE

The measurement of organizational performance ensures effective resource utilization to attain corporate objectives (George, 2017). Abdel-Maksoud, Asada, and Nakagawa (2008) characterized it as a crucial yardstick for evaluating organizational activities and their context. Bescos and Cauvin (2004) construed it as the tangible outcomes or achievements of a venture juxtaposed with its intended results. Organizational performance, in the context of its goals and objectives, delineates a firm's actual accomplishments versus its intended targets (Almatrooshi et al., 2016). It stands as a linchpin for sustained business prosperity. Singh, Darwish, and Potocnik (2016) asserted that organizational performance constitutes a pivotal variable in business and management research, spanning across domains such as human resources, marketing, operations management, international business, strategy, and information systems. The essence of organizational performance embodies a portrayal of the degree of realization of organizational tasks in line with its goals, mission, and vision (Bastian, 2001). Pasolong (2007) introduced another interpretation, framing organizational performance as the collective work accomplished by employees or groups within an organization, anchored by their delegated

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authority and responsibility to fulfill the organization's objectives within legal and ethical boundaries. Daft (2003) posited organizational performance as the effective and efficient utilization of available resources to accomplish tasks. The evaluation of organizational performance centers on three primary outcomes: shareholder value performance, financial performance, and market performance (Frannk & Farricker, 2022). Continuous organizational development hinges on the alignment of organizational performance with the individual performance of team members operating at the organizational level. In literature, performance denotes "the extent to which an organization attains its goals as a social system utilizing specific resources and methods" (Tannenbaum & Schmidt, 2009; Horga, 2012).

Contrarily, Richard, Devinney, Yip, and Johnson (2009) contended that organizational performance revolves around three core facets: shareholder expectations and economic value; financial performance and investment; and production capability. Bibhuti (2008) cited in Salau, Adeniji, and Oyewunmi (2014) expounded that organizational performance epitomizes a firm's capacity to accomplish its objectives through facets such as employee retention, comprehensive management styles, internal motivation, heightened commitment, job satisfaction, and career advancement opportunities, all of which significantly influence organizational success. Studies indicate that enterprise performance correlates with the effective and efficient utilization of enterprise resources (Robbins, Judge, and Sanghi, 2009), implying that businesses must render services promptly with minimal resource expenditure. In the context of this study, the identified dimensions of organizational performance encompass output and cost reduction.

Output

Output improvement has been a common trend in most industries in recent decades. Output defines the total goods and services produced within a given period. It is the quantity of items a firm produces within a defined period. The firm is defined to perform better or grow if there exists a steady growth in the quantity of goods produced within a defined time. This is an indicator or determinant of organizational performance and growth. The manifestation of this in a firm shows the effective and efficient engagement of all factor inputs and their optimal operation and the continued patronage of the company's goods, which indicates product appeal and guaranteed revenue and profit.

Cost Minimization

In business, economics, industry, manufacturing, enterprise, and related domains, cost reduction holds paramount importance (Samuelson, 1947, as cited in Mohajan, 2022). It constitutes both a financial tactic and an economic instrument aimed at diminishing product expenses within an enterprise. This endeavor enables the enterprise to maximize profits across its entire operations. Cost minimization strategies do not advocate for compromising product quality through the utilization of low-cost materials but instead prioritize ongoing alignment with customer requirements (Carter, 2001; Mohajan et al., 2012; Wiese, 2021). Roy et al. (2021) emphasized that enterprises judiciously opt for diverse raw materials to curtail production expenses. In an era of global economic competition, ensuring enterprise sustainability is imperative, and cost reduction stands as one of the premier strategies. Employing sensitivity analysis aids enterprises in making informed decisions regarding the

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optimal allocation of resources such as capital, labor, key raw materials, and other inputs (Mohajan, 2018b, 2021a).

EMPIRICAL REVIEW

Wang and Zhang (2016) conducted a longitudinal study (over a two-year period) using a sample of 500 employees in the finance industry of Australia on the relationships between multitasking behaviours, job satisfaction, and organizational performance. The findings revealed that employees who engaged in high levels of multitasking experienced decreased job satisfaction and lower organizational performance over time.

Park and Lee, (2018) looked into Multitasking capacities and organizational performance. Focusing on the telecommunications industry in South Korea, this qualitative case study explored the impact of employees' multitasking capacities on organizational performance. Through in-depth interviews with managers and employees, supplemented by organizational performance metrics, the authors found that excessive multitasking among employees led to decreased job satisfaction, increased turnover rates, and lower overall organizational performance.

In a survey involving 995 employees from private sector entities in Poland (N = 500) and Lithuania (N = 495), Vveinhardt and Sroka (2022) explored the determinants of employee procrastination and multi-tasking in the workplace, attributing these behaviors primarily to either personal attributes or managerial shortcomings. The study also revealed a moderate correlation between procrastination and multitasking across both countries, shedding light on the organizational implications of these phenomena. The researchers noted that while procrastination is conventionally analyzed through psychological lenses in the aspect of demotivating factors, the study underscores the role of mismanagement in fostering procrastinatory tendencies in the workplace. Similarly, the examination of multi-tasking in the study elucidates its prevalence not as a voluntary choice but often as a coping mechanism due to organizational inefficiencies. The study's significance lies in its novel data offering insights into the dynamics of multi-tasking and procrastination within Lithuanian and Polish organizations, thereby enriching existing literature and advocating for more adaptable work structures conducive to understanding and mitigating these behaviors.

Garcia and Perez (2017) investigated Multitasking capabilities and organizational performance in the service industry. The cross-sectional study was conducted in Spain to examine the relationship between employees' multitasking capabilities and organizational performance in the service industry. Utilizing survey data from 200 employees across various service organizations, the authors employed regression analysis to assess the impact of multitasking on organizational performance. The results indicated a negative association between multitasking and organizational performance, highlighting the importance of managing employees' multitasking behaviors effectively.

On their part, Edeh and Dialoke (2020) investigated the impact of human resource planning on organizational performance in 15 hotels in Ebonyi State, Nigeria, involving managers, supervisors, and front desk officers. The study identified several dimensions of human resource planning, including adequate funding, competence, age, and cultural background, as positively influencing organizational performance. The findings of the study emphasize the importance

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for HR managers to consider financial capabilities, as well as the age, competencies, and cultural diversity of prospective employees during the planning phase.

Bashir (2022) examined various facets of organizational operations such as strategic planning, structural design, business processes, corporate culture, employee performance management, and staff development practices. The study introduced the concept of organizational performance leadership, which he defined as achieving the overall annual organizational goals of the organization to attain the long-term vision, advocating for a holistic approach encapsulated in the 6Ps framework: Plan, Parts, Processes, Place, Performance, and People. Bashir proposed that the effective execution of this framework, overseen by organizational leadership, could significantly contribute to an organization's success.

Adler and Benbunan-Fich (2015) explored the impact of task difficulty and multitasking on performance, conducting an experiment with 636 subjects assigned to discretionary, mandatory, or sequential multitasking conditions. The study revealed that when the primary task was challenging, enforced multitasking led to significantly lower performance compared to discretionary multi-tasking or no multi-tasking. Conversely, in less challenging tasks, enforced multi-tasking resulted in higher performance compared to discretionary multi-tasking or no multi-tasking.

Johnson and Smith (2020) examined the relationship between multitasking capacities at work and organizational performance across various industries in the United States. Using a comprehensive review of existing literature, the authors found that while multitasking can increase individual productivity, it often leads to decreased overall organizational performance due to errors, decreased quality of work, and the attendant increase in stress levels. Similarly, Chen and Liu (2019) also examined the impact of employees' multitasking on organizational performance using a sample of 300 employees and their supervisors in the IT industry of China. The findings revealed a negative relationship between multitasking and organizational performance, suggesting that employees who engage in frequent multitasking activities tend to experience decreased efficiency and effectiveness in their work.

Organizations are commonly perceived as entities driven by objectives and goals, with success and failure measured against various metrics such as profits, market share, and productivity (James and Robert in Yamsin, 2012). Owen, Ron, Will, and Robert (2001) identified three main impediments to sustaining high performance: misalignment between organizational strategy and market requirements, incongruence between desired behavior and marketplace demands, and inadequate organizational systems and processes to support strategic objectives. The ramifications of multi-tasking on employees, such as heightened stress levels and potential burnout, are significant concerns for organizational productivity and employee well-being. Age-sensitive components of multi-tasking ability may further compound these challenges, necessitating a reevaluation of employee training and selection processes by management.

To augment organizational effectiveness via employee multi-tasking, this research aims to explore whether the multi-tasking capacity of employees correlates with the enhanced performance of deposit money banks, particularly in Rivers State. Drawing insights from the existing literature concerning the metrics and aspects of the criteria and predictive variables under scrutiny in this study, the following hypotheses were formulated to steer the statistical analysis:

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 H_{01} : There exists no significant relationship between simultaneous tasking and the output of

deposit money banks in Rivers State.

- H_{02} : There exists no noteworthy association between simultaneous tasking and cost minimisation within deposit money banks in Rivers State.
- H_{03} : There exists no noteworthy correlation between mental juggling and the output of deposit money banks in Rivers State.
- *H*₀₄: There exists no significant correlation between mental juggling and cost minimisation within deposit money banks in Rivers State.

3.0 RESEARCH METHODS

Sampling Procedure: Employing a descriptive and cross-sectional survey approach, this study targeted a total of twenty banks. Fifteen banks were selected for inclusion in the study using the simple random sampling technique, chosen for their representation of both traditional and modern banks. From the pool of management staff within these fifteen banks, respondents were randomly chosen based on convenience. Since the focus of the study is at the organizational level, all inquiries and investigations were directed towards the management staff. The selection of banks was influenced by the extent of market control they hold over various products and services. The choice of banks was determined through a judgmental sampling approach, considering factors such as accessibility and convenience. Table 1 below outlines the distribution of sets of questionnaire among the selected banks.

S/No.	Bank Name	Number of Branches	Number of Managers and Supervisors		
1	Access Bank of Nigeria Plc.	3	7		
2	Diamond Bank Plc.	2	9		
3	Ecobank of Nigeria Plc.	3	10		
4	Fidelity Bank Plc.	3	8		
5	First Bank of Nigeria Plc.	4	12		
6	Guaranty Trust Bank of Nigeria Plc.	3	10		
7	Heritage Bank Plc.	1	4		
8	Polaris Bank Plc.	3	6		
9	Stanbic-IBTC Bank Plc.	3	10		
10	Sterling Bank Plc.	2	9		
11	United Bank for Africa	4	12		
12	Unity Bank Plc.	2	6		
13	Union Bank of Nigeria Plc.	2	9		
14	Wema Bank Plc.	1	6		
15	Zenith Bank of Nigeria Plc.	4	10		
	Total	40	128		

Table 3.1:Distribution of Bank Managers and Supervisors

Source: Researcher's Field Survey, 2022.

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Operational Measures of Variables: The independent variable in this investigation is the multitasking capability of employees, encompassing simultaneous tasking and mental juggling as its dimensions. Conversely, the dependent variable is organizational performance, gauged through output and cost optimization.

Data Analysis Approach: The amassed data underwent analysis employing Structural Equation Modeling (SEM) given the study's nature and the structure of its hypotheses. The criteria for validation and significance testing were set at a confidence level of 95%. Descriptive statistics, encompassing mean and standard deviation, were utilized to delineate the attributes of the variables under scrutiny using Statistical Package for Social Sciences (SPSS) version 25. Inferential statistics were applied through SEM, encompassing both measurement and structural models. The measurement model is predicated on the common factor model (Thurstone, as referenced in Dimitris, George, Malvina, and Demosthenes 2017). SEM was chosen as the primary statistical technique to scrutinize the hypothetical model due to the following justifications: First, ordinal data obtained through Likert-type scales and featuring large sample sizes often exhibit a distribution that approximates normality (Hoyle, 2012). Altman and Bland (1995) illustrated that when samples encompass numerous observations, researchers might overlook the data's nature and resort to methodologies like SEM.

The investigation entails concurrent analyses of multiple interactions (Sarkar et al., 2001) among the facets of multitasking capability and organizational effectiveness. Gefen, Straub, and Boudreau (2000) contend that SEM empowers researchers to address interconnected research inquiries through a singular, systematic, and comprehensive analysis by simultaneously modeling the relationships among independent and dependent constructs.

Furthermore, this study utilized AMOS (Analysis of Moment Structures), a widely recognized specialized SEM software package (Byrne, 2001; 2010; 2012). AMOS software was selected due to its user-friendly graphical interface, clear model representation, and additional benefits such as robust bootstrapping capabilities (Tabachnick & Fidell, 2007; Bagozzi & Yi, 2012).

VARIABLES	DIMENSIONS/MEASURES	NUMBER OF ITEMS	ALPHA COEFFICIENT
<i>Independent:</i> Employees'	-Simultaneous tasking (External Interruption)	5	0.78
Multi-tasking Capacity	-Mental juggling (Self-Interruption)	5	0.93
<i>Dependent:</i> Organizational	-Output	5	0.71
Performance	-Cost Minimization	5	0.84

Table 4.: Reliability of Research Instrument

Source: SPSS Output (2022)

As depicted in table 2 previously, the alpha coefficients for the autonomous factor (multitasking capabilities) and its facets (simultaneous tasking and cognitive juggling correspondingly), along with the reliant factor (Organizational performance) and its assessments (productivity and cost minimisation) span from 0.71 to 0.93, signifying that the survey tool possesses satisfactory reliability.

European Journal of Interdisciplinary Research and DevelopmentVolume-06Aug - 2022Website:www.ejird.journalspark.orgISSN (E): 2720-57464.0 RESEARCH RESULTS

Table 4.1: Number of Copies of the Questionnaire Distributed and Retrieved Activities Number of Occurrences Percentage of Occurrences Copies of copies the Questionnaire 97 100 of Distributed/Administered 93 Copies of Questionnaire Returned 96 Copies of the Questionnaire Not Returned 4 4 Copies of the Questionnaire Completed But Mutilated 1 1 Copies of the Questionnaire Completed And Usable 95 92 **Source:** Field Work

As illustrated in table 4.1 above, out of a total of ninety-seven (97) questionnaires distributed, ninety-three (93) copies (representing 96%) were returned, four (4) copies (representing 4%) remained unreturned due to respondents' incapacity to complete them, and one (1) copy (representing 1%) was discarded due to damage. Thus, a total of 92 copies (representing 95%) of usable questionnaires were gathered and utilized for the analysis.

Assessment Models: This segment scrutinizes the correlation between the facets of the predictor factor (employees' multitasking capacity) and the evaluation factor (organizational performance) metrics, forming the aim of the study. A total of six null (hypotheses one to six) pairwise correlations are examined in this section utilizing Structural Equation Modeling (SEM). The Structural Equation Modeling was employed to scrutinize hypotheses, utilizing a reflective and recursive model methodology to forecast the reliant variable. Convergent validity was established according to the subsequent thresholds: Standardized factor loadings >3.0 (Brown, 2014), Average Variance Extracted >0.5, and Composite reliability > 0.5 (Fornell & Larcker, 1981). Discriminant validity was evaluated based on the guideline that "the square root of the average variance extracted must surpass its correlations with all other constructs" (Fornell & Larcker, 1981).

Table 4.2. Measurement Model Analysis of Simulaneous Tasking										
Model	Chi-Square	NFI	TLI	CFI	RMSEA	Variable	Standardized	Error		
	(df),						Factor	VAR		
	Significance						Loading			
							Estimates			
Simultaneous	(2df)	0.98	0.95	0.98	0.62	SM 1	0.77	0.30		
Tasking	=4.49,									
	p>0.000									
						SM 2	0.70	0.20		
						SM 3	0.72	0.22		
						SM 4	0.67	0.27		
						SM 5	0.81	0.36		

 Table 4.2: Measurement Model Analysis of Simultaneous Tasking

Source: Amos 24.0 output on research data, 2022.

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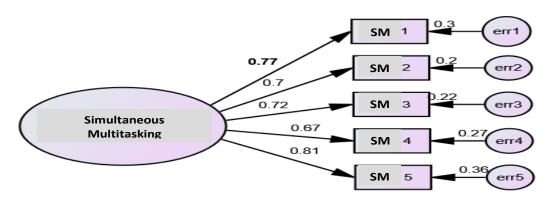


Fig 4.1: Measurement Model of Simultaneous Tasking

Demonstrated in Table 4 and Figure 2 above, each indicator of simultaneous tasking (one aspect of employees' multitasking capacity) exhibits appropriate loading (> 0.50), suggesting their favorable impact on the variable. This suggests that the participants have displayed a robust indication of the significance of this variable in the investigation.

	Tuble 4.5. Measurement model manysis of mental sugging										
Model	Chi-Square	NFI	TLI	CFI	RMSEA	Variable	Standardized	Error			
	(df),						Factor	VAR			
	Significance						Loading				
							Estimates				
Mental	(35df)	1.0	0.59	1.0	0.14	MJ 1	0.58	0.35			
juggling	=242,										
	p>0.000										
						MJ 2	0.65	0.44			
						MJ 3	0.86	0.51			
						MJ 4	0.69	0.36			
						MJ 5	0.71	0.27			

Table 4.3: Measurement Model Analysis of Mental Juggling

Source: Amos 24.0 output on research data, 2022

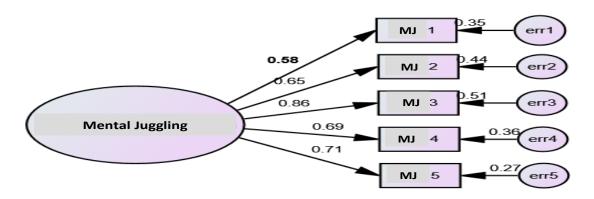


Figure 4.2: Measurement Model of Mental Juggling

As shown in Table 5 and Figure 3 above, all indicators of mental juggling (a dimension of employee multitasking capacity) are loaded properly (> 0.50), indicating that they are positive

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contributors to the variable. This means the respondents have shown a strong indication of the prominence of this variable in the study.

	Table 4.4: Measurement Model Analysis of Output										
Model	Chi-Square	NFI	TLI	CFI	RMSEA	Variable	Standardized	Error			
	(df),						Factor Loading	VAR			
	Significance						Estimates				
Output	(5df)	0.92	0.87	0.94	0.12	OT 1	0.63	0.28			
	=29.8,										
	p>0.000										
						OT 2	0.59	0.37			
						OT 3	0.73	0.48			
						OT 4	0.79	0.24			
						OT 5	0.64	0.39			

Source: Amos 24.0 output on research data, 2022

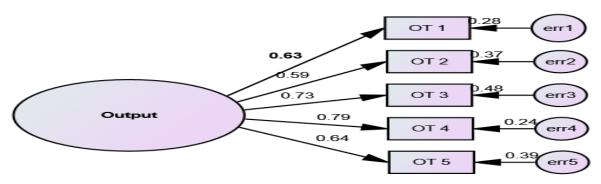


Figure 4.3: Measurement Model of Output

As shown in Table 6 and Figure 4 above, all output indicators (a measure of organizational performance) are loaded properly (> 0.50), indicating that they are positive contributors to the variable. This means the respondents have shown a strong indication of the prominence of this variable in the study.

					v			
Model	Chi-Square	NFI	TLI	CFI	RMSEA	Variable	Standardized	Error
	(df),						Factor Loading	VAR
	Significance						Estimates	
Cost	(33df)	0.80	0.72	0.82	0.15	CM 1	0.54	0.26
Minimization	=231, p>0.000							
						CM 2	0.67	0.21
						CM 3	0.62	0.33
						CM 4	0.59	0.22
						CM 5	0.61	0.19

Source: Amos 24.0 output on research data, 2022

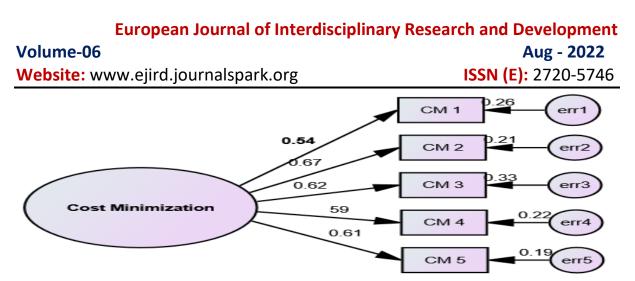


Figure 4.4: Measurement Model of Cost Minimization

As shown in Table 7 and Figure 5 above, all indicators of cost minimization (a measure of organizational performance) are loaded properly (> 0.50) and indicate that they are positive contributors to the variable. This means the respondents have shown a strong indication of the prominence of this variable in the study.

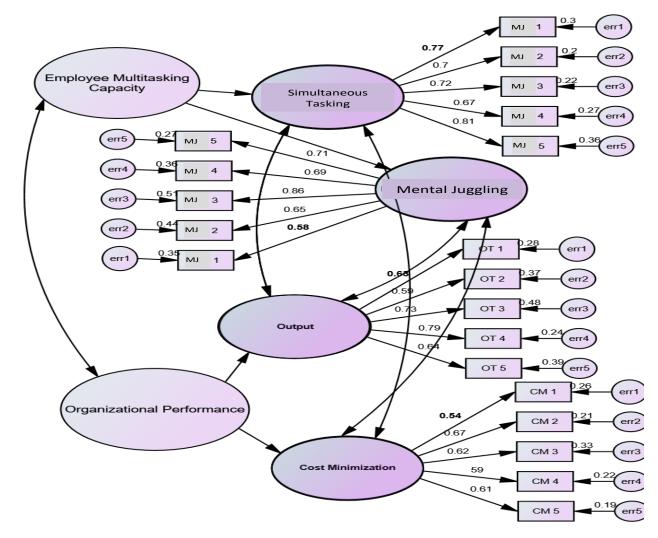


Figure 4.5: Structural Model

Hypotheses Testing

This section proceeds to test the research hypotheses.

Table 4.6: Results of Standardized and Unstandardized Regression Estimate of The Model.

Mediation Stage	Relationship	Std. Beta	Actual Beta	S.E.	C.R.	Р	Remark
$X \rightarrow Y$ (Hypothesis 1)	Simultaneous tasking	0.49	0.86	0.11	2.31	0.000	Not Supporte d
$X \rightarrow Y$ (Hypothesis 2)	Mental juggling	0.56	0.83	0.32	3.20	0.000	Not Supporte d
$X \rightarrow Y$ (Hypothesis 3)	Output	0.58	0.80	0.15	4.12	0.000	Not Supporte d
$X \rightarrow Y$ (Hypothesis 4)	Cost Minimization	0.61	0.89	0.18	3.22	0.000	Not Supporte d

Source: Amos 24.0 Output on Research Data, 2022

Hypothesis One

 H_{01} : There exists no significant relationship between simultaneous tasking and the output of Deposit Money Banks in Nigeria.

Mediation	Relationsh	nip	Std.	Actual	S.E.	C.R.	Р	Remark
Stage			Beta	Beta				
$X \rightarrow Y$	Simultaneo	ous	0.49	0.86	0.11	2.31	0.000	Not
(Hypothesis	tasking	and						Supported
1)	Output							

The first hypothesis (H₀₁) explored the connection between simultaneous tasking and the productivity of deposit money institutions in Nigeria. As displayed in Table 8 above, the data analysis outcome unveiled that β =0.49, r=0.86, and p = 0.000. Following the decision criteria stipulating acceptance of the null hypothesis if β <0.3, r<0.7, and p > 0.05, or rejection of the null hypothesis if β <0.3, r<0.7, and p > 0.05, or rejection of the null hypothesis if β <0.3, r<0.7, and p > 0.05, or rejection of the null hypothesis if β <0.3, r<0.7, and p < 0.05), we consequently reject the null hypothesis and endorse the alternative form. This outcome suggests a remarkably robust positive and substantial correlation between simultaneous tasking and the productivity of deposit money institutions in Nigeria (β =0.49>0.3, r=0.86 >0.7, and p = 0.000 < 0.05). H₀₁ is not upheld. Therefore, based on this discovery, we infer that simultaneous tasking significantly amplifies the organizational output of deposit money institutions in Nigeria.

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Hypothesis T	WO						
	exists no notewo of Deposit Mone	•			veen sii	nultanec	pus tasking and the
Mediation	Relationship	Std.	Actua	S.E.	C.R.	Р	Remark
Stage		Bet	l Beta				
		a					
$X \rightarrow Y$	Simultaneous	0.56	0.83	0.32	3.20	0.000	Not
(Hypothesis	tasking and						Supported
2)	Cost						
	Minimization						

The second hypothesis (H₀₂) aimed to explore the connection between simultaneous tasking and cost minimisation in deposit money institutions in Nigeria. As displayed in Table 8 above, the data analysis outcome unveiled that β =0.56, r=0.83, and p = 0.000. Following the decision criteria stipulating acceptance of the null hypothesis if β <0.3, r<0.7, and p > 0.05; or rejection of the null hypothesis if β >0.3, r>0.7, and p < 0.05), we consequently reject the null hypothesis and endorse the alternative form. This outcome suggests a remarkably robust positive and substantial correlation between simultaneous tasking and cost minimization of deposit money institutions in Nigeria (β =0.56 >0.3, r=0.83 >0.7, and p = 0.000 < 0.05). H₀₂ is not upheld. Based on this discovery, we infer that simultaneous tasking significantly contributes to enhancing cost-minimization endeavors of deposit money institutions in Nigeria.

Hypothesis Three

Γ

 H_{03} : There exists no noteworthy association between mental juggling and the productivity of Deposit Money Banks in Nigeria.

Mediation	Relationship	Std.	Actual	S.E.	C.R.	Р	Remark
Stage		Beta	Beta				
$X \rightarrow Y$	Mental Juggling	0.58	0.80	0.15	4.12	0.000	Not
(Hypothesis	and Output						Supported
3)							

The third hypothesis (H₀₃) aimed to explore the connection between mental jugging and the productivity of deposit money institutions in Nigeria. As indicated in Table 8 above, the data analysis outcome revealed that β =0.58, r=0.80, and p = 0.000. Following the decision criteria which dictate acceptance of the null hypothesis if β <0.3, r<0.7, and p > 0.05; or rejection of the null hypothesis if β >0.3, r>0.7, and p < 0.05), we thus reject the null hypothesis and embrace the alternative form. This outcome highlights a notably strong positive and substantial correlation between mental juggling and the productivity of deposit money institutions in Nigeria (β =0.58 >0.3, r=0.80 >0.7, and p = 0.000 < 0.05). H₀₃ is not upheld. Based on this discovery, we infer that mental jugging significantly contributes to enhancing the organizational output of deposit money institutions in Nigeria.

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Hypothesis Four

H04: There exists no significant association between mental jugging and cost minimization of Deposit Money Banks in Rivers State.

Mediation	Relationship	Std.	Actual	S.E.	C.R.	Р	Remark
Stage		Beta	Beta				
$X \rightarrow Y$	Mental Juggling	0.61	0.89	0.18	3.22	0.000	Not
(Hypothesis	and Cost-						Supported
4)	Minimization						

The fourth hypothesis (H₀₄) sought to examine the association between mental juggling and cost minimization in deposit money banks in Nigeria. As shown in Table 8 above, the result of data analysis revealed that β =0.61, r=0.89 and p = 0.000. Based on the decision criteria which states that we should accept the null hypothesis if β <0.3, r<0.7 and p > 0.05; or reject the null hypothesis if β <0.3, r<0.7 and p > 0.05; or reject the null hypothesis if β <0.3, r<0.7 and p > 0.05; or reject the null hypothesis if β <0.3, r>0.7 and p < 0.05), we therefore reject the null hypothesis and accept the alternate form. This result indicates that there is a very strong positive and significant correlation between mental juggling and cost minimization of deposit money banks in Nigeria (β =0.61>0.3, r=0.89 >0.7, and p = 0.000 < 0.05). H₀₄ is not supported. Based on this finding, we conclude that mental juggling plays a significant role in enhancing cost-minimization efforts of deposit money banks in Nigeria.

Table 9:	Summary of	f the Recult	s/Findings and	Docisions
Table 9:	Summary of	l lie Kesult	s/rmungs and	1 Decisions

S/N	Hypotheses	Outcome	Extent of Relationship	Remark
Ho1	There exists no significant relationship between simultaneous tasking and the output of Deposit Money Banks in Nigeria.	$\beta = 0.49,$ r = 0.86 p = 0.000	Strong and Positive Relationship	Not Supported
H _{O2}	There exists no noteworthy association between simultaneous tasking and the economization of Deposit Money Banks in Nigeria.	$\beta = 0.56,$ r = 0.83 p = 0.000	Strong and Positive Relationship	Not Supported
Ноз	There exists no noteworthy association between mental juggling and the productivity of Deposit Money Banks in Nigeria.	$\beta = 0.58,$ r = 0.80 p = 0.000	Strong and Positive Relationship	Not Supported
H04	There exists no significant association between mental jugging and cost minimization of Deposit Money Banks in Rivers State.	$\beta = 0.61,$ r = 0.89 p = 0.000.	Strong and Positive Relationship	Not Supported

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DISCUSSION OF FINDINGS, CONCLUSION, AND RECOMMENDATIONS Enterprises are consistently exploring strategies to enhance their effectiveness, with organizational performance serving as the correspondence of their existence. Given the perpetual

organizational performance serving as the cornerstone of their existence. Given the perpetual pursuit of this objective, numerous scholarly endeavours have proposed various models and theories to achieve this goal, yielding mixed results. As organizations strive for efficiency, this study takes a novel approach by investigating how employees' multitasking abilities, inherent in their daily routines, can be harnessed within the organizational context to bolster performance. Contrasting routine multitasking in daily life, this study delves into how this skill can be leveraged in the workplace to enhance performance. To contextualize the study, multitasking capacity was assessed through simultaneous tasking and mental jugging, while organizational performance was gauged by output and cost optimization. Four null hypotheses derived from existing literature were formulated to guide the study. Through a comprehensive analysis employing structural equation modeling via the AMOS software package, several insights were gleaned, prompting recommendations for further action.

Simultaneous Tasking and Organizational Performance (Output and Cost-minimisation) in the Deposit Money Banks in Rivers State, Nigeria.

The first and second hypotheses aimed to explore the correlation between simultaneous tasking and the gauges of organizational performance (specifically, output and cost-minimisation) in the Deposit Money Banks in Rivers State, Nigeria. These findings uncovered a significant and positive association between simultaneous Tasking and the chosen metrics of organizational performanace (namely, output and cost-minimisation) in the Deposit Money Banks in Rivers State. Consequently, we deduce that simultaneous Tasking markedly amplifies the organizational performance by augmenting both output and cost-minimisation efforts of the Deposit Money Banks. This observation contradicts prior research findings, which contended that multitasking impedes optimal work performance and efficiency, with workers toggling between tasks taking 50% more time than when tackled sequentially or separately by completing one first before commencing another one (Gendreau, 2007). The inefficiency exacerbates with task complexity, which escalates with hierarchical ascent within organizations. On his part, Schottner, 2007) examined the relationship between relational contracts, multitasking, and job design and found that task fragmentation is more frequently preferred over assigning all tasks to a single agent.

Mental Juggling and Organizational Performance (Output and Cost Minimisation) in the Deposit Money Banks in Rivers State, Nigeria.

The third and fourth hypotheses scrutinized the interrelationship between mental juggling and the metrics of organizational performance (i.e., Output and Cost Minimisation) in the Deposit Money Banks in Rivers State. These findings unveiled a substantial and affirmative correlation between mental jugging and the designated metrics of organizational performance examined in this study (i.e., Output and Cost Minimisation, respectively) in the Deposit Money Banks. Building upon these insights, we infer that mental jugging significantly enriches organizational performance by heightening both Output and Cost Minimisation efforts in the Deposit Money Banks. This observation aligns with earlier research by Paridon and Kaufmann (2010), suggesting that multitasking is a trainable strategy that can be practiced. Tasks that can be automated and require minimal attention post-practice can be concurrently executed with other

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tasks (Paridon & Kaufmann, 2010). Multitasking hinges on an individual's capacity to concentrate and allocate attention effectively. Although multitasking remains inherent, its integration into management practices can facilitate organizational restructuring and adaptability to evolving cultures.

A comprehensive grasp of the correlation and impact of multitasking on organizational and individual performance facilitates the refinement of work organization and managerial approaches to achieve optimal outcomes, particularly in light of modern workplace dynamics. Given the outlined findings and conclusions regarding the nexus between Employees' Multitasking Capacity and Organizational performance in Deposit Money Banks in Rivers State, this study proffers the following recommendations:

- i. For deposit banks to optimize output and achieve cost-minimisation, routine tasks should be concurrently executed when they are not under the pressure of time or time is not much of a constraints.
- ii. Organizations should embrace mental jugging for creative tasks, emphasizing singular task focus to enhance organizational and individual performance.
- iii. To improve overall performance, the managers in deposit money banks need to employ simultaneous tasking for simple tasks and mental juggling for important tasks. This will help them improve both organizational output and cost minimization, which in turn improves overall organizational performance.

REFERENCES

- 1. Abdel-Maksoud, A., Asada, T., and Nakagawa, M. (2008). Performance measures, managerial practices, and manufacturing technologies in Japanese manufacturing firms: State of the art. International Journal of Business Performance Management, 10(1), 1-16.
- 2. Adler, R. F., and Benbunan-Fich, R. (2015). The effects of task difficulty and multitasking on performance. Interacting with Computers, 27(4), 430 – 439.
- 3. Almatrooshi, B., Singh, S. K., and Farouk, S. (2016). Determinants of organizational performance: a proposed framework. International Journal of Productivity and Performance Management, 65(6), 844–859.
- 4. Altman, D. & Bland, J. (1995). Absence of Evidence Is Not Evidence of Absence. BMJ. PP. 311. 485. DOI: 10.1136/bmj.311.7003.485.
- 5. Altmann, E. M., and Trafton, J. G. (2002). Memory for goals: An activation-based model. Cogn. Sci., 26, 39–
- 6. Amagoh, F. (2008). Perspectives on organizational change: Systems and complexity Theories. The Innovation Journal: The Public Sector Innovation Journal, 13(3), 1-14.
- 7. Bagozzi, P. R., & Yi, Y. (2012). Specification, Evaluation, and Interpretation of Structural Equation Models. Academy of Marketing Science, 40, 8-34. http://dx.doi.org/10.1007/s11747-011-0278-x
- 8. Bailey, B. P., and Iqbal, S. T. (2008). Understanding changes in mental workload during execution of goal-directed tasks and its application for interruption management. ACM Trans. Comput.-Hum. Interact., 14, 1–28.
- 9. Bailey, B. P., and Konstan, J. A. (2006). On the need for attention-aware systems: Measuring effects of interruption on task performance, error rate and affective state. J. Comput. Hum. Behav., 22, 658–708.

Website: www.ejird.journalspark.org

- Bashir, J. (2022). Organizational performance leadership (An integrated approach to build and maintain the whole organization for its peak performance). International Journal of Business and Management Studies, 03(06), 53 – 69.
- 11. Bastian, I. (2001). Public sector accounting. Publisher BPFE, Gadjah Mada University, Yogyakarta.
- 12. Beeson, I., and Davis, C. (2000). Emergence and Accomplishment in Organizational Change. Journal of Organizational Change Management, 13(2), 178-189.
- 13. Berger, A. N. and Bonaccorsi Di Patti, E. (2006). Capital structure and firm performance: A new approach to testing agency theory and an application to the banking industry Journal of Banking and Finance, Elsevier, 30(4), 1065 1102.
- 14. Bescos, P. -L., and Cauvin, E. (2004). Performance measurement in French companies: An empirical study. In Epstein, M. J., and Manzoni, J. -F. (eds), Performance measurement and management control: Superior organizational performance. Studies in Managerial and Financial Accounting, 14, PP. 185-202. Elsevier.
- 15. Bogunovich, P., and Salvucci, D. (2011). The effects of time constraints on user behaviour for deferrable interruptions. In: Proc the SIGCHI Conf Human Factors in Computing Systems (CHI 2011), Vancouver, BC, Canada.
- 16. Bowman, L. L., Levine, L. E., Wait, B. M., and Gendron, M. (2010). Can students really multitask? An experimental study of instant messaging while reading. Computer and Education, 54(4), 927–931.
- 17. Brenes, E. R., Mena, M., and Molina, G. E. (2008). Key success factors for strategy implementation in Latin America. Journal of Business Research, 61(6), 590-598.
- 18. Byrne, B. M. (2001). Structural equation modeling with AMOS: Basic concepts, applications and programming. Mahwah, NJ: Erlbaum.
- 19. Byrne, B. M. (2010). Structural Equation Modeling with Amos: Basic Concepts, Applications, and Programming (2nd ed.). New York: Taylor and Francis Group.
- 20. Byrne, B. M. (2012). Structural Equation Modeling with Mplus: Basic Concepts, Applications, and Programming. New York, NY: Routledge.
- 21. Cades, D. M., Davis, D. A. B., Trafton, J. G., and Monk, C. A. (2007). Does the difficulty of an interruption affect our ability to resume? In: Proc. the Human Factors and Ergonomics Society Annual Meeting, Baltimore, Maryland.
- 22. Cades, D. M., McKnight, P. E., Kidd, D. G., King, E. B., and Boehm-Davis, D. A. (2010). Factors affecting interrupted task performance: Effects of adaptability, impulsivity and intelligence. In: Proc. the Human Factors and Ergonomics Society Annual Meeting, San Francisco, California.
- Calabrese, A.; Campisi, D. and Mancuso, P. (2002). "<u>Productivity Change in the Telecommunications Industries of 13 OECD Countries,</u>" <u>International Journal of Business and Economics</u>, School of Management Development, Feng Chia University, Taichung, Taiwan, vol. 1(3). PP. 209-223..Handle: RePEc:ijb:journl:v:1:y:2002:i:3:p:209-223
- 24. Capdeferro, N., Romero, M., and Barberà, E. (2014). Polychronicity: Review of the literature and a new configuration for the study of this hidden dimension of online learning. Open and Distance Learning Association of Australia, Inc.
- 25. Carrier, L. M., Rosen, L. D., Cheever, N. A., and Lim, A. F. (2015). Causes, effects, and practicalities of everyday multi-tasking. Developmental Review, 35(-), 64–78.
- 26. Carter, M. (2001). Foundations of mathematical economics. MIT Press.
- Chen, W., & Liu, Y. (2019). The impact of employees' multitasking on organizational performance: Evidence from the IT industry in China. Information & Management, 56(3), 103146.

Website: www.ejird.journalspark.org

Volume-06

ISSN (E): 2720-5746

- 28. Courage, M. L., Bakhtiar, A., Fitzpatrick, C., Kenny, S., and Brandeau, K. (2015). Growing up multi-tasking: The costs and benefits for cognitive development. Developmental Review, 35, 5–41.
- 29. Daft, R. (2003). Management. Thompson.
- 30. Dimitris, P.; George, T.; Malvina, V. and Demosthenes, P. (2017) Factor Analysis as a tool for Pattern Recognition in biomedical research; a review with application in R software. Journal of Data Science Vol. 16. PP. 615-630.
- 31. Dindar, M., and Akbulut, Y. (2016). Effects of multi-tasking on retention and topic interest. Learning and Instruction, 41(1), 94–105.
- 32. Duggan, G. B., Johnson, H., and Sørli, P. (2013). Interleaving tasks to improve performance: users maximise the marginal rate of return. Int. J. Hum.-Comput. St., 71, 533–550.
- 33. Edeh, F. O., and Dialoke, I. (2020). Effect of human resource planning on organizational performance of the hospitality sector in Nigeria. Business Perspective Review, 2(1), 1-12.
- 34. Erasmus, P. (2008). Value based financial performance measures: an evaluation of relative and incremental information content. Corporate Ownership and Control, 6(1), 66-77.
- 35. Garcia, M. A., & Perez, J. G. (2017). Multitasking capabilities and organizational performance in the service industry: A cross-sectional study in Spain. Service **Business**, **11**(4), 907–924.
- 36. Gendreau, R. (2007). The new techno culture in the workplace and at home. Journal of American Academy of Business, Cambridge, 11(2), 191-196.
- 37. George, N. R. (2017). Examples of organizational performance management. http://smallbusiness.chron.com/examples-organizational-performance-management-11508.html
- 38. Gillie, T., and Broadbent, D. (1989). What makes interruptions disruptive? a study of length, similarity, and complexity. Psychol. Res., 50, 243–250.
- 39. Giokas, D. I. & Pentzararopoulos, G. C. (2000). Evaluating productive efficiency in telecommunications: Evidence from Greece, Telecommunications Policy, 24, 78 1-794
- 40. Hannagan, T. and Bennett, R. (2008). Management: Concepts and practices (3rd Ed.). Financial Times: Prentice Hall, Pearson.
- 41. Hodgetts, H. M., and Jones, D. M. (2006). Interruption of the tower of London task: Support for a goal-activation approach. J. Exp. Psychol. Gen., 135, 103–115.
- 42. Horga, G. (2012) Leadership and Performance organization. Expert Publishing, Bucuresti.
- 43. Horga, G. (2012). Leadership și performanță organizațională, Expert Publishing, București.
- 44. Hoyle, R. H. (2012). Handbook of structural equation modeling. Guilford Press.
- 45. Itkin, H., and Nagy, M. (2014). Theoretical and practical use of metaphors in organizational development and beyond. Pannon Management Review, 3(4), 37-72.
- 46. Janssen, C. P., and Brumby, D. P. (2010). Strategic adaptation to performance objectives in a dual-task setting. Cognitive Sci., 34, 1548–1560.
- 47. Janssen, C. P., Brumby, D. P., Dowell, J., Chater, N., and Howes, A. (2011). Identifying optimum performance trade-offs using a cognitively bounded rational analysis model of discretionary task interleaving. Top. Cogn. Sci., 3, 123–139.
- 48. Jin, J., and Dabbish, L. A. (2009). Self-Interruption on the computer: A typology of discretionary task interleaving. In: Proc. the SIGCHI Conf Human Factors in Computing Systems (CHI '09), Boston, MA, USA.

Website: www.ejird.journalspark.org

- Johnson, L. M., & Smith, R. J. (2020). Multitasking at work: A review of empirical research on its effects on organizational performance. Journal of Applied Psychology, 105(8), 987–1005.
- 50. Juliana, I., and Maria, C. (2016). Organizational performance: A concept that self-seeks to find itself. Economy Series, 4(16), 179-183.
- 51. Kapadia, C., and Melwani, S. (2020). More tasks, more ideas: The positive spillover effects of multi-tasking on subsequent creativity. Journal of Applied Psychology.
- Kebaya, E., Okibo, W. B., and Nyangau, A. (2015). Effects of Cultural Change on Strategic Planning in the Banking Sector: A Case of Commercial Banks in Kisii Central Business District, Kenya. The International Journal of Business and Management, 3(5), 74-85.
- 53. Konig, C. J., Buhner, M., and Murling, G. (2005). Working memory, fluid intelligence, and attention are predictors of multi-tasking performance, but polychronicity and extraversion are not. Human Performance, 18(3), 243-266.
- 54. Kraushaar, James M. and Novak, David C. (2010) "Examining the Affects of Student Multitasking with Laptops During the Lecture," Journal of Information Systems Education: Vol. 21: Issue 2. PP. 241-252. Available at: <u>https://aisel.aisnet.org/jise/vol21/iss2/11</u>
- 55. Lam, Pun-Lee and Lam, T. (2005,). "Total factor productivity measures for Hong Kong telephone." Telecommunications Policy, Volume 29, Issue 1, (February). PP. 53-68
- 56. Lazear, E. P., and Gibbs, M. (2014). Personnel economics in practice (3rd ed.). ISBN 9781118206720, 416.
- 57. Logies, R. H., Trawley, S., and Law, A. (2011). Multi-tasking: Multiple, domainspecific cognitive functions in a virtual environment. Mem Cogn, 39(8), 1561-1574.
- 58. Lui, K., and Wong, A. (2012). Does media multi-tasking always hurt? A positive correlation between multi-tasking and multisensory integration. Psychonomic Bulletin and Review, 19(4), 647–653.
- 59. Madden G and SJ Savage (1999). "Telecommunications Productivity, Catch-up and Innovation." Telecommunications Policy 23(1): 65-81.
- 60. Mattarelli, E., Bertolotti, F., and Incerti, V. (2015). The interplay between organizational polychronicity, multi-tasking behaviors and organizational identification: A mixed-methods study in knowledge intensive organizations. International Journal of Human-Computer Studies, 79(-), 6–19.
- 61. McCrickard, D. S., Catrambone, R., Chewar, C. M., and Stasko, J. T. (2003a). Establishing tradeoffs that leverage attention for utility: Empirically evaluating information display in notification systems. Int. J. Hum.-Comput. St., 58, 547–582.
- 62. McCrickard, D. S., Chewar, C. M., Somervell, J. P., and Ndiwalana, A. (2003b). A model for notification systems evaluation-assessing user goals for multi-tasking activity. ACM Trans. Comput.-Hum. Interact., 10, 312–338.
- 63. McFarlane, D. C., and Latorella, K. A. (2002). The scope and importance of human interruption in human–computer interaction design. Hum.-Comput. Interact., 17, 1–61.
- 64. McFarlane, D.C. (2002) Comparison of four primary methods for coordinating the interruption of people in human–computer interaction. Hum.-Comput. Interact., 17, 63–139.
- 65. Mohajan, H. K. (2017a). Optimization models in mathematical economics. Journal of Scientific Achievements, 2(5), 30-42.
- 66. Mohajan, H. K. (2018b). Aspects of mathematical economics, social choice and game theory. (PhD Dissertation, Jamal Nazrul Islam Research Centre for Mathematical and Physical Sciences (JNIRCMPS), University of Chittagong, Chittagong, Bangladesh).

Website: www.ejird.journalspark.org

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- 67. Mohajan, H. K. (2021a). Estimation of Cost Minimization of Garments Sector by Cobb-Douglass Production Function: Bangladesh Perspective. Annals of Spiru Haret University, Economic Series, 21(2), 267-299.
- 68. Mohajan, H. K. (2022). Cost minimization analysis of a running firm with economic policy. Annals of Spiru Haret University, Economic Series, 22(3), 1 21.
- 69. Mohajan, H. K., Deb, S. K., and Rozario, S. O. (2012). Environmental accounting and roles of economics. International Journal of Economics and Research, 3(1), 133-140.
- 70. Onday, O. (2016). The relationship between concepts of rational, natural and open systems: Managing organizations today. International Journal of Management Sciences and Business Research, 5(4), 40-48.
- 71. Ong, Y., and Gupta, A. (2016). Evolutionary multi-tasking: a computer science view of cognitive multi-tasking. Cognitive Computation, 8(2), 125–142.
- 72. Ophir, E., Nass, C., and Wagner, A. (2009). Cognitive control in media multitaskers. PNAS: Proceedings of the National Academies of Sciences, 106(37), 15583–15587.
- 73. Oulasvirta, A. and Saariluoma, P. (2004). Long-term working memory and interrupting messages in human–computer interaction. Behav. Inform. Technol., 23, 53–64.
- 74. Oulasvirta, A., and Saariluoma, P. (2006). Surviving task interruptions: investigating the implications of long-term working memory theory. Int. J. Hum.-Comput. St., 64, 941–961.
- 75. Owen, K., Ron, M., Will, G., and Robert, G. (2001). Creating and sustaining the high-performance organization. Managing Service Quality, 11(2), 10-21.
- 76. Paridon, H. M., and Kaufmann, M. (2010). Multi-tasking in work-related situations and its relevance for occupational health and safety: Effects on performance, subjective strain and physiological parameters. Europe's Journal of Psychology, 6(4), 110-124.
- 77. Park, S., & Lee, H. (2018). Multitasking capacities and organizational performance: A case study of the telecommunications industry in South Korea. Asia Pacific Journal of Management, 35(2), 451–471.
- 78. Pasolong, H. (2007). Teori administrasi publik. Alfabeta.
- 79. Pollard, M. A., and Courage, M. L. (2017). Working memory capacity predicts effective multi-tasking. Computers in Human Behavior, 76(-), 450–462.
- 80. Rekart, J. L. (2011). Taking on multi-tasking: Students will continue to media multitask—to their own detriment. Nonetheless, teachers can limit the multi-tasking effect and improve learning. Phi Delta Kappan, 93(4), 1-5.
- 81. Richard, P., Devinney, T., Yip, G., and Johnson, G. (2009). Measuring organizational performance: Towards methodological best practice. Journal of Management, 35(3) 718-804.
- 82. Robins, S. P., Judge, T. A., and Sanghi, S. (2009). Organizational behavior (13th ed.). Prentice-Hall.
- 83. Rosen, C. (2008). The myth of multi-tasking: The new Atlantis. A Journal of Technology and Society, 20(-), 105–110.
- 84. Roy, L., Molla, R., and Mohajan, H. K. (2021). Cost minimization is essential for the sustainability of an industry: A mathematical economic model approach. Annals of Spiru Haret University, Economic Series, 21(1), 37-69.
- Rushdi, A. A. (2000). "Total factor productivity measures for Telstra." Telecommunications Policy, Volume 24, Issue 2, (March). PP. 143-154. https://doi.org/10.1016/S0308-5961(99)00078-6
- 86. Rylkova, Z. (2015). Measurement of organizational performance in relation to competitors. Economics and Management, 7(2), 13-19. https://doi.org/10.12846/j.em.2015.02.02

Volume-06

Website: www.ejird.journalspark.org

ISSN (E): 2720-5746

- 87. Salau, O., Adeniji, A., and Oyewunmi, A. (2014). Relationship between elements of job enrichment and organizational performance among the non-academic staff in Nigerian public universities. Management and Marketing, 3(2), 173-189.
- 88. Sanbonmatsu, D. M., Strayer, D. L., Medeiros-Ward, N., and Watson, J. M. (2013). Who multi-tasks and why? multitasking ability, perceived multi-tasking ability, impulsivity, and sensation seeking. PLOS ONE,8(1), e54402.
- 89. Sarkar MB, Echambadi R, Cavusgil ST and Aulakh PS (2001) The influence of complementarity, compatibility, and relationship capital on alliance performance, Academy of Marketing Science Journal, 29(4): 358-373.
- 90. Schottner, A. (2007). Relational contracts, multi-tasking, and job design. The Journal of Law, Economics, and Organization, 24(1), 138-156.
- 91. Singh, S., Darwish, T. K., and Potočnik, K. (2015). Measuring organizational performance: A case for subjective measures. British Journal of Management, 27(1), 214–224.
- 92. Sparrow, B., Liu, J., and Wegner, D. M. (2011). Google effects on memory: Cognitive consequences of having information at our fingertips. Science, 333(6043), 776–778.
- 93. Speier, C., Vessey, I., and Valacich, J. S. (2003). The effects of interruptions, task complexity, and information presentation on computer-supported decision-making performance. Decision Sci., 34, 771–797.
- 94. Sueyoshi, T. (1998). Privatisation European Journal of Operation Research, Volume 107, Issue 1, (May). PP. 45-61
- 95. Tabachnick, B. G., & Fidell, L. S. (2007). Using Multivariate Statistics (5th ed.). New York: Allyn and Bacon.
- 96. Tannenbaum, R., & Schmidt, W. H. (2009). How to choose a leadership pattern (Harvard business review classics). Harvard Business Press: Harvard.
- 97. Thurstone, L. L. (1935). The vectors of mind. Chicago: University of Chicago Press.
- 98. Thurstone, L. L. (1947). Multiple factor analysis. Chicago: University of Chicago Press.
- 99. Thurstone, L. L., & Thurstone, T. G. (1941). Factorial studies of intelligence. Psychometric Monographs, No. 2. Document URL: http://search.proquest.com/docview/615105769?accountid=14521
- 100. Trafton, J. G., Altmann, E. M., Brock, D. P., and Mintz, F. E. (2003). Preparing to resume an interrupted task: effects of prospective goal encoding and retrospective rehearsal. Int. J. Hum.-Comput. St., 58, 583–603.
- 101. Uri, N.D. (2000). "Measuring productivity change in telecommunications." Telecommunications Policy, Volume 24, Issue 5, (June). PP. 439-452. https://doi.org/10.1016/S0308-5961(00)00030-6
- 102. Vveinhardt, J., and Sroka, W. (2022). What determines employee procrastination and multi-tasking in the workplace: Personal qualities or mismanagement? Journal of Business Economics and Management, 23(3), 532–550.
- 103. Wang, L., & Zhang, Y. (2016). Multitasking behaviors and organizational performance: A longitudinal study in the finance industry of Australia. Journal of Organizational Behavior, 37(5), 693–713.
- 104. Wiese, H. (2021). Cost minimization and profit maximization. In advanced microeconomics. Springer Gabler, Wiesbaden.
- 105. Yasmin, M. B. Y. M. (2012). Factors influencing organizational performance in metro specialist hospital, Sungai Petani, Kedah Darul Aman (Master of Human Resource Management Universiti Utara Malaysia).
- 106. Yeung, N. (2010). Bottom-up influences on voluntary task switching: The elusive homunculus escapes. J. Exp. Psychol. Learn., 36, 348–362.