| 1 2 | GLOBAL SUPPLY CHAINS MANAGEMENT IN A DEVELOPING ECONOMY – A CASE STUDY OF NIGERIA ECONOMY |
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| 3 | ABSTRACT |
| 4 5 6 7 8 9 10 11 | Global Supply Chain Management (GSCM) is a complementary activity which entail the movement of goods, services and funds from countries that have sufficient of these resources to where they are needed in good time. Supply chain management is very vital in today's business as it intends to bridge the gap between developing countries and the developed countries by the provision of the wants of both economies. Nigeria as one of Africa's largest economies, has been deeply integrated into global supply chains across various industries, including oil and gas, agriculture, and manufacturing. However, the economic gain from the GSCM has been very low due to several factors such as unprocessed raw materials, unstable government policies, poor infrastructural amenities and poor workforce. |
| 13 14 15 16 17 18 19 20 21 22 | This paper seeks to measure the effect of SCM practices in the manufacturing sector, examine the impact of Global supply chain management (GSCM) practices on the economic development of Nigeria, as well as the constraints and benefits that global supply chains present to Nigeria's business sectors. The quantitative research technique was used to analyse the primary data collection from manufacturing, marketing, transport and logistics sectors of the economy using random sampling technique where descriptive statistics (mean) and inferential statistics (correlation analysis) tools were applied. The Pearson Correlation indicating a strong positive linear relationship between Global Supply Chain Management (GSCM) practices and economic growth and productivity of the sectors. But the null hypothesis was rejected indicating that there isn't sufficient statistical evidence to conclude a significant effect of GSCM practices on the economic growth in Nigeria. |
| 23 24 25 26 | Developing countries, including Nigeria, face numerous challenges in effectively managing global supply chains. To enhance efficiency, competitiveness, and economic growth, it is essential to adopt strategic principles that address infrastructural deficits, regulatory bottlenecks, and technological gaps. |
| 27 28 | Keywords: Supply Chain, industrialisation, international market, foreign investors, of economic growth and sustainable practices |
| 29 | INTRODUCTION |
| 30 31 32 | The concept of Globalisation of value chain has been a prominent feature of the world economy since the 17th century when colonial empires began to carve up the globe in search of raw materials and new markets for their manufactured goods and services. (Allen, R. C. (2011). |
| 33 34 35 36 37 38 39 40 | Global supply chains have significantly transformed the economic landscape of developing economies over three decades now. Globalisation is a phenomenon that involves functional integration between internationally dispersed activities (Dicken 1998:5). It involves all complementary activities associated with the movement of goods, services and funds from countries that have sufficient of these resources to where they are needed in good time. A supply chain is made up of several business entities (suppliers, manufacturers, wholesalers, distributors, retailers and customers) concerned with ensuring the flow of raw materials, component parts or finished goods from the source to the required destination. From the economics point of view Global Supply |

Chains(GSCs) is related to the principle of comparative advantage. In furtherance to this study there

exist overlapping names and concepts, where different researchers use different terminology to

discuss very similar ideas. Global commodity chains, value chains, value systems, production

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- 44 networks and value networks are just some of the terms used by researchers whose common
- 45 ground is much greater than their divisions. (Sturgeon, T. J. (2001).
- However, GSCs are fundamentally a business strategy of Transnational Corporations (TNCs), and are
- driven by their own business agenda and interests. Low labour costs alone are insufficient and is not
- 48 a justification for relocating a part of TNCs' production processes. GSCs also rely on sophisticated
- 49 and competitive networks of goods and information flow to make decision. Participating and
- 50 upgrading along the chains require not only manufacturing skills but also some sound business skills
- 51 that are often lacking in developing countries. GSC (2013). Globalisation of value chain. Globalisation
- 52 is very important in this 21st century, since it intends to bridge the gap between developing countries
- and the developed countries by the provision of the wants of both economies. it is the integration of
- 54 country's resources to the development of the country and other countries. Globalisation is very
- important in this 21st century, since it intends to bridge the gap between developing countries and
- the developed countries by the provision of the wants of both economies. Nigeria as one of Africa's
- 57 largest economies, has been deeply integrated into global supply chains across various industries,
- including oil and gas, agriculture, and manufacturing.
- 59 This paper seeks to examine the impact of Global supply chain management (GSCM) on the
- 60 economic development of Nigeria, as well as the constraints and benefits that global supply chains
- 61 present to Nigeria's economic growth.
- 62 Global supply chain management (GSCM) is a chain of several companies or firms that perform
- 63 several functions such as manufacturing, supply of raw materials, transportation of materials,
- 64 storage of goods, distribution of goods to final consumers and so on. Therefore, the purpose of this
- 65 research study is to measure the practices of the impact of these chain of firms on the economic
- development of Nigeria as well as examine the challenges associated with the global supply chains
- 67 practises, with emphasis on their role in trade expansion, industrialization, job creation and
- 68 economic growth.
- 69 Developing countries, including Nigeria, face numerous challenges in managing global supply chains
- 70 effectively. To enhance the efficiency, competitiveness, and economic growth, it is essential to adopt
- 71 strategic principles that address infrastructural deficits, regulatory bottlenecks, and technological
- 72 gaps. However, the flipside of globalisation also includes falling prices for producers as well as cases
- 73 where upgrading of products or processes does not necessarily lead to increased profits and
- sustainable incomes. This section explores key approaches to improving global supply chain
- 75 management (GSCM) and best practices among stakeholders of various sectors in Nigeria economy.
- 76 1.2 Statement of the Problem
- 77 The economic development in the Nigeria economy can be classified in two forms; the financial
- 78 gains and the human capital gains. However, some of the roles of global supply chain practices dwell
- 79 on the promotion of the viable business relationship between member of the group in different
- 80 country and in different sectors, but the major objective is for growth and development of the
- 81 economy of the countries where business is situated. The main worry is the variation in the benefits
- 82 derived from varying countries are never equivalent, since developed countries benefit more from
- 83 the chain compared to developing countries. Therefore, this study seeks provide reasons for this
- 84 difference in the gains accrued to the beneficiaries due to SCM practices and hence, the need to
- answer some important questions in this research e study.
- 86 1.3 Objective of the Study

- 87 The general objectives of the study are:
- 1. Seeks to measure the effect of SCM practices in the manufacturing sector
- 89 2. To examine the impact of Global supply chain management (GSCM) on the economic
- 90 development of Nigeria.
- 91 3. To identify the challenges and opportunities presented by the of Global supply chain management
- 92 (GSCM) practices in Nigeria.

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LITERATURE REVIEW

- There are various scholars that have conducted research or has perform one form of related study
- on Global supply chain and its effects on businesses either locally or internationally. Therefore, this
- 97 section reviewed some of the discovery of scholars that explores related research on the impact of
- 98 global supply chain management in Nigeria and other countries focusing on its benefits and
- 99 constraints.
- 100 Research by Gereffi et al. (2005) wrote on economic growth and Foreign Direct investment where
- they highlighted how global supply chains drive Foreign Direct Investment (FDI), leading to
- industrialisation, technological development and employment generation in developing economies.
- 103 Nigeria has benefited from multinational investments in manufacturing, oil and gas, and agriculture
- sectors and the scholars elaborated the role of global supply chain in achieving economic growth.
- 105 (World Bank, 2021).
- 106 Pietrobelli, C., & Rabellotti, R. (2011), explained how participation in global supply chains enables
- developing countries to adopt advanced technologies and business practices. Their study showed
- 108 that firms in developing countries engaging in international trade have improved productivity and
- 109 efficiency through technology adoption and engaging in standard and best practices in their
- operations, so as compete with multinational firms.
- 111 Connelly, B. L., Ketchen, D. J., & Hult, G. T. M. (2013) emphasizes the roles played by global supply
- chains in the provision of access to larger markets, enabling firms and industries to increase exports.
- 113 The agriculture and textile sectors have particularly seen growth due to rising demand in global
- markets as the strive to increase customers and contacts internationally.
- 115 Mahmood, S., Misra, P., Sun, H., Luqman, A., & Papa, A. (2024) The study findings indicate that SEZ
- 116 establishments foster economic resilience by attracting foreign investment, promoting industrial
- diversification, and facilitating technology transfer. Energy projects, including development of
- 118 renewable energy sources and energy infrastructure, enhance energy security and mitigate potential
- 119 risks associated with energy scarcity. Through effective global supply chain management,
- 120 responsible sourcing, green logistics.
- Ovezmyradov, B. (2022). Here the researcher underscores how supply chain help to avoid external
- disruption such as pandemics, wars and trade restrictions that may affect the economic system by
- stockpiling of goods and providing such goods for use during the affected period. Therefore supply
- chain pose to manage the supply disruptions and to also manage the gap of lack of production the
- and distribution networks gap by closing the lag with the stockpiled goods to meet demand of
- 126 consumers until the pandemic or disruption period is over.

- 127 Elizabeth J. Woods (2004). The researcher analyses the role of SCM in the context of operational
- 128 effectiveness and strategies for all parties involved. SCM implies managing the relationships
- between the businesses responsible for the efficient production and supply of agribusiness products
- from farm level to consumers, to reliably meet consumers' requirements in terms of quantity,
- 131 quality and price. In practice, this often includes the management of both horizontal and vertical
- alliances. Meeting customers' requirements involves integrated management of the transactions
- and relationships between firms as well as processes within firms. Managing these relationships
- provides an opportunity for negotiating the shares between chain members of the value produced
- within the chain. The researcher explained that for developing countries to benefit well, their
- products has to be beneficial to the chain.
- 137 Adebayo, I. T. (2012). The study tried to examine the level at which the Nigerian manufacturing
- companies are involved in SCM practices as well determine the effect of these practices on SCM
- performance. With a total of 31 companies forming the sample size of the study, the data collected
- was analyzed using both descriptive statistics (tables, mean and standard deviation) and inferential
- 141 statistics (correlation and multiple regression analysis), the result showed that SCM practices
- definitely impacts on SCM performance.
- 143 Gunasekaran, et al. (2001) explored that SCM needs to be assessed for its performance in order to
- evolve an efficient and effective supply chain. The role of these measures and metrics in the success
- of an organization cannot be overstated because they affect strategic, tactical and operational
- 146 planning and control.
- 147 In addition to these there are other scholars that have carried out GSCs study in Nigeria, developing
- countries as well as the countries in the international community, but we only mentioned the few
- 149 stated above for this study.
- 150 Supply Chain Practices

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- 151 Supply Chain Management (SCM) Practices refer to the set of activities, strategies, and processes
- that organizations use to manage and improve the flow of goods, services, information, and finances
- from manufacturers through suppliers to end customers efficiently and effectively. Organisations
- involved need to focus on supply chain management practices that have impact on enhancing SCM
- activities and ultimately performances (Arawati, 2011).
- 156 The objectives of supply chain practices are thus;
 - i. Reduction of costs: This is where the chain maintenance of the most effective minimal cost for all expenses is considered during practice. The cost of production, storage, transportation, logistics and other expenses are reviewed by members at all time in order to deliver the best to members internationally. These costs are compared relatively at every stage, since SCM is all about cost and benefit. The SCM have put in place tools in the system to check and control cost of operation always, as a matter of control there is standard price control system.
 - ii. Quality Control System: The quality of services and goods rendered are also very important, because consumer's satisfaction is key. Therefore, at every stage of the supply chain the quality is ascertaining, so that the final product quality is consistent or close to expectation.
 - iii. Ensure timely delivery: Timing is very important at every production or manufacturing stage, especially for Just in time production (JIT). For the supply chain to be effective,

- timing also has to be perfect, as such the time of delivery is paramount at every stage of the chain.
- iv. Strengthen relationships with suppliers and customers: For the supply chain to be able to achieve set goal and for the performance to effective there must be a smooth relationship between suppliers, manufacturers and consumers, so that each of the stage should be able to know and understand the needs of the other parties and should be ready to satisfy that need.
 - v. Increase overall competitiveness: One of the major objective of SCM is to ensure that organisations involved are effective in their performance, this allows for healthy competition among members of group. This brings out the best in terms of customer's satisfaction for all members.

181 Key Elements of SCM Practices Include:

In Nigeria, where supply chain activities failures can be caused by poor infrastructural facilities availability, fuel scarcity, or port congestion and inconsistent government policies, good SCM practices help businesses like Dangote, Nestlé, or Jumia stay competitive and overcome some of these challenges by ensuring steady flow of products, reduced waste, and improved customer satisfaction. Some of the Key Elements of SCM Practices which enable members of the group performance to be effective Include:

1. Strategic Supplier Partnership

This refers to the long-term relationship and close cooperation between an organisation and its suppliers to achieve mutual benefits. Strategic partnerships with suppliers enable organisations to work more effectively with a few important suppliers who are willing to share responsibility for the success of the products. Suppliers who are willing to go extra mile in getting the right materials for the manufacturer in order to achieve the set product design at the best competitive price. For instance; Dangote Group partners with local and international suppliers for consistent delivery of raw materials (like limestone for cement production). By working closely with reliable suppliers, they reduce delays and improve production efficiency.

2. Customer Relationship Management (CRM)

This practice focuses on building and maintaining strong relationships with customers to increase customer satisfaction and loyalty. This practice allows manufacturers to develop link with customers in order to manage customers need and expectation, here they settle to meeting customer's satisfaction. This allows customers to have confidence in the organisation, its products and her management. Organisations need to view their relationship as asset to the customers which can improve sales. For instance; Jumia Nigeria uses CRM tools to track customer preferences, buying history, and offer personalized deals and information to help customers make informed decision on products qualities and quantities. This keeps customers engaged and encourages through repeat purchases. Also help customers to understand the business of organisation and their products to allow better planning.

3. Information Sharing

- Shared information are of two aspects namely quantity information and quality information of SCM.

 Both type of information is equally important and are utilised by suppliers to win their end users
- loyalty in terms of finished products. Effective Supply Chain Management requires transparent and
- 212 timely information exchange among supply chain partners to improve planning and coordination.
- 213 According to Stein and Sweat (1998), supply chain partners who exchange information regularly are

- able to work as a single entity. Together, they can understand the needs of the end user better and
- 215 hence can respond to market change quicker. For instance; Nigerian Breweries shares demand
- forecasts and inventory levels with distributors to avoid stock outs or overstock situations, especially
- 217 during peak seasons like holidays and festive periods.

4. Inventory Management

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- 219 This involves record management of stored and utilised materials and finished products by both
- 220 suppliers and customers. This records of stored and used items are for future purposed by either the
- 221 manufacturers, suppliers or the users of the products. This involves maintaining optimal inventory
- levels to meet demand while minimizing costs. It is very important stored materials and products are
- 223 preserves according to standards, to enable usage when the need arises. Inventory management is
- mainly to minimise, manage or maintain cost as well as time effect. For instance;
- 225 Shoprite Nigeria uses inventory tracking systems to monitor stock levels in real-time, ensuring
- 226 popular items like rice, cooking oil, meat and vegetables are always available without overstocking.

5. Logistics Management

- 228 It focuses on the efficient movement of goods from suppliers to manufacturers to customers. This
- 229 flow of materials and products requires timing too. This is because manufacturers need to meet
- 230 customers demand, thereby building customers confidence on product and organisation. It is also
- 231 necessary for brand or product's loyalty. Logistics management involves communication,
- warehousing, transportation, quality assurance, distribution, record keeping and so on. For instance;
- 233 Indomie (Dufil Prima Foods) has a robust logistics network with warehouses and distribution centers
- across Nigeria to ensure quick delivery of noodles to even remote areas.

235 **6. Quality Management**

- 236 Ensures that products and processes meet defined quality standards throughout the supply chain.
- 237 Quality assurance works for both raw materials, intermediate products and final products. This is
- another vital section of the SCM. This is where all the product confidence is built on, as such the
- 239 quality management is not negotiable for SCM practices to be effective. In order to maintain the
- 240 quality of products some of the members keep a separate section to handle quality assurance of the
- 241 products at all stages. For instance; Nestlé Nigeria maintains strict quality checks for raw materials
- and finished goods. They work closely with farmers in Northern Nigeria to ensure high-quality raw
- 243 milk for their products.

7. Outsourcing and Third-Party Logistics (3PL)

- 245 This is a situation where organisation contract out a section of its department to specialist to handle
- for professionalism and efficiency purpose. It Involves using external companies to handle certain
- supply chain functions like warehousing, transportation, or packaging. This part of SCM is only
- 248 introduced after manufacturers and organisations have compared all options such as quality, time as
- 249 well as cost and discovered that this is the best alternative for the organisation to outsource that
- area of the organisation's department or function to enable the organisation focus on primary duty.
- 251 Most often organisation outsource certain part of responsibility or duty to enable management
- 252 concentrate on the very important aspect of their duty for economic and business purpose. For
- 253 instance; Konga e-commerce company outsources their delivery to GIG Logistics in order to reduce
- delivery times and operational costs.

8. Green Supply Chain Management

- 256 This focuses on environmental sustainability by reducing waste, recycling materials, and minimizing
- 257 carbon emissions. This section is for organisations that deal with recycle products, such as plastics,
- 258 PVC materials, paper (pulp materials). They engage suppliers of this materials and train the suppliers
- at intervals how to handle these materials to keep them in useable state, such as cleaning this
- 260 recycle materials, sorting them and package them for supply purpose or use. This section of SCM
- always work according to government standards. For instance; Coca-Cola Nigeria promotes recycling
- through partnerships like the Food and Beverage Recycling Alliance (FBRA) to collect and recycle
- 263 Coke PET bottles.

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9. Demand Forecasting and Planning

- 265 This section work with data collection from sales or marketing department and also the
- 266 procurement or purchase department. The accounts department also play vital part here, since it
- deals with financial position of the company. Predicting customer demand to align with production
- and inventory of the company. This allows management of the organisation to know their business
- 269 best to have control of every situation involving customers demand. For instance; PZ Cussons Nigeria
- 270 uses sales data and seasonal trends to forecast demand for soaps and detergents, helping avoid
- 271 shortages during festive seasons.

10. Risk Management in Supply Chain

- 273 This section help Identifying and mitigating risks that could disrupt supply chain operations. These
- 274 risks are from suppliers not meeting company's demands, poor quality risk, poor marketing or sales
- 275 risk, over demand risk, workers or labour challenges risk, financial risk; unable to meets demand,
- etc. all risk have better management strategies. Therefore, management should prepare to manage
- any form of challenge the organisation is faced with, in order to get effective performance for SCM
- 278 operations. For instance; During the COVID-19 pandemic, pharmaceutical companies like Emzor
- 279 Pharmaceuticals adopted local sourcing strategies to reduce dependence on imports, managing risk
- 280 from global supply disruptions.

EMPIRICAL THEORY ON GLOBAL SUPPLY CHAIN

282 Introduction

- 283 Several empirical theories underpin global supply chain management (GSCM), providing a
- framework for understanding its dynamics, efficiency, and impact on economic development. These
- theories help explain how supply chains operate, how businesses optimize their networks, and how
- 286 economies benefit from integration into global markets. This section reviews key empirical theories
- that support GSCM, with a particular focus on their relevance to Nigeria.

1. Global Value Chain (GVC) Theory

- The Global Value Chain (GVC) theory, developed by Gereffi et al. (2005), this is a specialised form of
- 290 division of labour where production is fragmented across multiple countries or states into stages,
- allowing firms to specialize in specific stages of manufacturing processes or service provision. This
- theory emphasizes on governance structures, upgrading opportunities, and the distribution of
- 293 economic benefits across different nations. In Nigeria, this theory is relevant in sectors such as
- agriculture and oil and gas, where integration into global value chains influences production
- 295 efficiency and trade patterns. For instance, Multi-choice Ltd are in charge of Entertainment business
- they run entertainment business various Africa countries.

2. Transaction Cost Economics (TCE) Theory

298 This theory was initiated by Ronald Coase (1937) and later by Williamson's (1975) Transaction Cost 299 Economics theory, this theory measures the cost and benefits associated to employing a particular 300 type of economic activity and it explains how firms decide between in-house production and 301 outsourcing the production or economic activity based on cost efficiency. This theory highlights the 302 role of contract enforcement, opportunism, and asset specificity in global supply chain decisions. For 303 Nigeria, TCE theory is useful in analysing how businesses engage with international suppliers, 304 navigate regulatory frameworks, and mitigate risks associated with cross-border trade. Other 305 scholars that contributed to this theory recently are Benito and Tomassen (2010) have examined the 306 implications of governance costs for the exploitation of technology in a knowledge-intensive firm, 307 Buckley and Hashai (2014), for example, emphasize that the knowledge-intensity of the firm will 308 impact on its organizational structure. The core concept of this theory is that most firms compare 309 the market cost or external cost to cost of operation, if operation cost is lower, then better 310 internalise firm's operation broad. For instance, Jumai E-commence and her business relationship 311 with GIG Logistics to handle all Jumai deliveries.

3. Resource-Based View (RBV) Theory

The Resource-Based View (RBV) theory, proposed by Barney (1991), posits that firms achieve competitive advantage by leveraging unique resources of the firm either tangible or intangible assets and capabilities which are the firm's capacity to employ its resources effectively to achieve desired outcomes. This include the skills, routines, processes, and organizational structures that enable a firm to coordinate and leverage its resources to create value, in the context of GSCM, RBV theory suggests that Nigerian firms must develop specialized skills, technological capabilities, and infrastructure to enhance their competitiveness in global supply chains. Generally, the Resource-Based View theory suggests that competitive advantage grew from the strategic leveraging of valuable, rare, inimitable, and non-substitutable resources and capabilities, which enable firms to surpass rivals and achieve superior financial performance on the long term bases. (Somashekar, C. (2014). For instance, Konga and Jumai specialises in E-commerce, GIG Logistics specialises in logistics

4. Network Theory

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Network theory examines how firms establish relationships with suppliers, customers, and other stakeholders within supply chains. According to this theory, strong networks enhance knowledge sharing, reduce uncertainty, and improve operational efficiency. Nigeria's participation in global supply chains can benefit from fostering strategic partnerships with multinational corporations and leveraging digital platforms to strengthen business networks. For instance, Peterson and Zetasan (PZ) where records of sales for the various divisions were managed for future forecasting.

5. Just-in-Time (JIT) and Lean Supply Chain Management Theory

Just-in-Time (JIT) and Lean Supply Chain Management theories focus on reducing waste, improving efficiency, and ensuring timely production and delivery. Originally developed in Japan's manufacturing sector, these principles have been widely adopted in global supply chains. In Nigeria, adopting JIT strategies can help minimize delays caused by infrastructural challenges and enhance production efficiency. For instance, Dangote cement and its customers.

6. Institutional Theory

Institutional theory explores how regulatory environments, social norms, and governmental policies shape supply chain practices. It highlights the role of institutional pressures in determining how firms comply with international trade regulations, sustainability standards, and corporate governance

requirements. Nigeria's regulatory framework and policy consistency play a crucial role in determining the country's attractiveness to global supply chain investors. The following are the key components of institutional theory of trade: Institutions can include legal systems, property rights regimes, trade agreements, cultural norms, and social conventions. Transaction Costs: These costs can include search and information costs, bargaining and negotiation costs, monitoring and enforcement costs, and coordination costs. Comparative Institutional Advantage: The Institutional Theory of Trade suggests that countries may possess a "comparative institutional advantage" in certain industries or types of trade due to the quality and effectiveness of their institutional environment. Path dependence suggests that historical institutional arrangements and policy choices can have long-lasting effects on economic outcomes and patterns of trade. For instance, Nigerian Brewery Ltd., they manage farms in Niger State, Edo State, etc while the manage factories is Lagos State, Oyo State, etc

Conclusion

These empirical theories provide a comprehensive understanding of global supply chain management and its impact on developing economies like Nigeria. While the Global Value Chain (GVC) theory explains the structure of supply chains, Transaction Cost Economy (TCE) and Resource Base View (RBV) theories address cost efficiency and competitive advantage respectively. Network theory, JIT principles, and institutional theory further enhance our understanding of how firms optimize their global supply chain operations. By aligning policies and business strategies with these theoretical insights, Nigeria can strengthen its role in global supply chains and drive sustainable economic growth.

Opportunities of Global Supply Chains in Nigeria

There are several opportunities associated with being a member of the group or carrying out its practices, which help to overcome the negative effect of the policies of the countries where member carry-out their business. Majorly the advantage for existing members is that the domestic environment does not affect them very much, since their operating domain is globally and not locally. There only challenge is the local regulation, as such some many opportunities are open to members as thus;

1. Economic Growth and Job Creation

Global supply chains facilitate foreign direct investment (FDI), which allows the establishment of multinational companies in Nigeria and as such resulting in both vertical and horizontal expansion of organisations, assist in opening the economic causing growth in the nation Gross Domestic Product (GDP). The advent of Global Supply Chain spurred economic growth through the creation employment opportunities in several sectors, particularly in sectors such as manufacturing, agribusiness and logistics. It also encourages collaboration of business organisations in order to maximise profit apart from Job creation.

2. Technology and Knowledge Transfer

Participation in global supply chains exposes Nigerian businesses to advanced technologies and best practices from international partners through strategic partnership and international networking which also allows the transfer of skills and knowledge geographically. This knowledge sharing and transfer enhances productivity and efficiency amongst members as well as helping local industries improve their competitiveness.

384 3. Market Expansion 385 By integrating into global supply chains, Nigerian businesses can access international markets, 386 expanding their consumer base beyond domestic boundaries. This is particularly beneficial for 387 industries such as agriculture, leather and textiles, where exports have grown due to global demand 388 for such products. 389 4. Infrastructure Development 390 The need for efficient transportation and logistics to support supply chain operations has 391 encouraged infrastructure investments, including road networks, ports, transportation and communication systems, which benefit both businesses and the general population. This 392 393 infrastructural development could be carried out by both the public and the private sectors of the 394 economy, but it is objectively to facilitate economic growth as well as ease the social life of citizens 395 of the country. 396 **Challenges of Global Supply Chains in Nigeria** 397 The flaws and constraints for members are majorly globally and universal, as such it is shortly lived, 398 because the general group most often go all out to solving their challenge since it is universal. Some 399 of the common challenges experienced are thus; 400 1. Supply Chain Disruptions and Vulnerability 401 Nigeria's dependence on global supply chains makes the country's economy vulnerable to external 402 crisis, due to the existence of external link any disruption in the international community will surely 403 affect the country, such as geopolitical tensions, pandemics, and trade restrictions. For example, the 404 COVID-19 pandemic disrupted supply chains, leading to shortages and scarcity of products and 405 increased costs. 406 2. Infrastructural Deficiencies 407 Despite some of the progress recorded internationally in terms of availability of infrastructure, 408 Nigeria's infrastructure remains inadequate for seamless global supply chain integration due to the 409 political instability, poor leadership style, poor road networks, unreliable power supply, and 410 congested ports which hinder efficient trade and logistics operations in the country. 411 3. Regulatory and Policy Challenges 412 Nigerian businesses are challenged by faults caused by the Government structures and policies such 413 as Bureaucratic red tape, inconsistent in Government policies, and trade restrictions which create 414 barriers for businesses looking to engage in global supply chains. These Regulatory deficiencies 415 include multiple taxation often increase costs and discourage foreign investment. Inconsistent or 416 poor government fiscal policies such as withdrawal of incentives from the businesses, poor 417 infrastructural amenities to reduce cost of operation or production cost. 418 4. Limited Value Addition and Industrialization 419 Nigeria primarily exports unprocessed agricultural materials rather than processed goods, which is 420 low in value, limiting the country's economic benefits in global supply chain participation. This lack 421 of industrialization goods causes the country missing out on higher-value manufacturing and

5. Poor Environmental and Social Concerns for Workforce

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processing activities.

424 Global supply chains in developing countries that only contribute to the unprocessed products can

lead to exploitative labour practices and environmental degradation of such countries, since their

426 products is of low value. For instance, countries with mining industries and agriculture suffer

427 deforestation, pollution, and poor working conditions for their workforce because of the low cost of

428 their products

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METHODOLOGY

430 This research study adapts a social survey research design method whereby questionnaires were

431 administered for strategic Primary data collection on a sample population of 160 workers from

different companies in varying sectors such as manufacturing sector, transportation sector,

433 communication sector and logistics. In order to get the required information for the research study

434 quantitative method of data analysis was applied.

435 Having regard of the characteristics of our research population and considering the size of the

436 population where respondents were drawn to complete our questionnaires, we draw our sample

437 size using the Krejcie and Morgan (1970) method of determining sample size for research activities

438 using the Table 1 below.

Form the Table 1; it shows that we administered 160 Questionnaires to three section of the Global

Supply Chain group that is the Manufacturing Sector, Suppliers, Transport and Logistics. We received

441 60% of the questionnaires out of which 10% were invalid and 90% were utilized for the study.

Therefore, we had respondents for the 87 questionnaires. The breakdown to the three sections were

443 Manufacturing with 36 results, suppliers with 23 results and Transport and logistics 14 each.

The administered questionnaires are proportionate to the total population of the sampled sites of

the program. To determine the number of respondents from each of the sites, Taro Yamane's (1967)

446 method was utilized. The Method is given as:

$$447 Pr = n \times SS$$

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449 Where:

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450 Pr = Proportion of respondents

n = Population of each of the selected area

452 SS = Sample Size; and

453 N = Total Population of all the selected areas

454 According to Odoh (1995), simple random sampling technique ensures that each element within the

455 population has an equal chance of being represented i.e. each element has an equal probability of

456 being represented. To this end, any employee in the various section as mentioned above, who is

457 willing to respond to our questionnaire is sampled though he/she must be working under any of the

458 mentioned organization in the different section of Global Supply Chain. This means every employee

459 have the probability of being sampled in so far as he/she is within the Selected Companies staff

460 member either in the manufacturing section or Distribution or Supplier section or the Transport and

461 Logistics section.

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The questionnaire information was tested in order to ascertain its reliability of the questionnaire

using Cronbach's Alpha test with Statistical Package for Social Sciences (SPSS) version 27, so that we

| 464 465 | will ascertain that the internal contents of the questionnaire would enable us to achieve the objectives of the research study. |
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| 466 467 468 469 470 471 472 473 | The Cronbach's Alpha for the research questionnaire is 0.9, and it Is made of 16 questions; this gave confidence to the researcher to proceed with research technique selected for the study. The questionnaire is sub-divided into four sections, namely section one: Demography of the despondent, section two: The effects of Global Supply Chain Practices, section three: The impact of GSCM on the selected sector and economic growth of the country and section four: The Challenges associated with GSC practices and possible recommendations. In totality every aspect of the questionnaire contributed to achieving the objectives of the research study as the questions were all aligned toward the objectives of the study. |
| 474 475 476 | The Pearson product moment correlation coefficient test was calculated at 5% level of significance with 95% confidence level. To answer the research questions as well, the researcher adopted the mean score, with a group mean. |
| 477 | Decision Rule |
| 478 479 | The answering of research questions have it at Where; \overline{X} is the average and the 5-Likert scale average for decision making = 3.0, the decision rule is given as; |
| 480 | High if the item statement and group mean is greater than 3.0 |
| 481 | Average or Medium if the item statement and group mean is 3.0 |
| 482 | Low if the item statement and group mean is less than 3.0 |
| 483 484 485 | The decision rule on the postulated hypotheses stated that, if p-value is less than alpha (p-value <a), (p-value="" alpha="" greater="" hypothesis,="" if="" is="" null="" p-value="" reject="" than="" the="" we="" while="">a), we accept the null hypothesis. For purpose of this study, alpha was taken at 5% level of significance.</a),> |
| 486 | RESEARCH DATA |
| 487 488 489 | Primary data is collected through the distribution of instrument questionnaires to the sample workers in the different organisations from the manufacturing sector, marketing sector, transport and logistics sectors. |
| 490 491 492 493 | The data was analysed quantitatively using tables and descriptive statistics such as frequency distribution tables and simple percentages while hypotheses were tested using the inferential statistics (correlation analysis) on SPSS version 27 statistical tools which are basically quantitative methods. |
| 494 495 | The data was extracted from 90 questionnaires distributed to four selected sectors of the Global Supply Chain group, which serve as random samples for the population under study. |
| 496 | RESULTS AND DISCUSSION |
| 497 498 499 500 501 502 | A total of 160 questionnaires were distributed for the collection of information, however, only 90 were well completed which is 57% for the analysis. But, 96 questionnaires were returned which is 60% of the sample size. For each section of the group namely Manufacturing sector, Supplies sectors, Transportation and Logistics the no. and percent of valid questionnaires received are thus Manufacturing has 38 questionnaires which is 63%, Suppliers has 24 Nos which is 48%, Transportation and Logistics has 14 Questionnaires each that is 56%. This signifies that the division |

- with the lowest respondents from percent is Suppliers / Distribution, while the highest is
- Manufacturing division with 63%. The over all mean for the distribution is 55.75% which shows that
- the distribution is slightly right skew. Therefore, we can go ahead to do the analysis for Global
- 506 supply chain practice. To ascertain effect of the GSCM practice on the productivity of the
- 507 organization.
- Table 3 from the research study display the level of effect the Global Supply Chain Management
- practice has on the vary selected organization operation. This measurement is shown as thus:
- 510 Likert Scale 1 = N.A Not at all meaning the practice has no impact on the organization operation,
- scale 2 = V.M Very Moderate means the practice effect is very moderate on the organization
- operation. The scale 3 = S.M Slightly Moderate is average, while the Likert scale 4 = H. Highly
- 513 Significant meaning the effect is more, and the scale 5 = V.H. Very Highly Significant is the highest
- level of impact. This effect is thus for Manufacturing the lowest is 8% while the highest is 43%, for
- the Suppliers the lowest is 5% and the highest is 43%, for transport and logistics the least is 0% and
- the highest is 36%. The over all mean for Manufacturing is 3.24, which is moderate, Suppliers is
- 4.17, which is high, transport is 4.0 is also high, while Logistics is 3.86 which is slightly high.
- Table 4 from the research study the effectiveness of Global Supply Chain on the economic growth or
- 519 productivity of the sectors selected.
- 520 Using the Likert scale 1 represents V.IN means very ineffective to the selected sector's economic
- 521 growth or productivity. Likert scale 2 INEF represents ineffective, scale 3 M is moderately
- 522 effective, scale 4 EFF means effective and scale 5 V.EFF means Very effective. The Table 4
- analysis is thus for the different selected sectors; Manufacturing sector lowest percent, highest
- 524 percent and the group mean score are 5%, 48% and 3.05 respectively which is moderate. The
- suppliers scores are 0%, 46% and 4.25 group mean respectively, this shows that the sector is very
- effective. Transport sector scores are 0%, 50% and 4.0 group mean respectively which signifies that
- it is effective and Logistics scores are o%, 34% and group mean of 4.29 which is very effective. Form
- 528 the research findings Logistics is the most effective of the four selected sector.
- 529 This study signifies that the productivity effect of Global Supply Chain on the various sectors align
- 530 with GSCM practices operational activities. The studies highlighting the positive correlation between
- 531 GSCM practices and improved organizational performance, including environmental and financial
- benefits. Which partly the conclusion of the first test.
- The Second part of the test is the Hypothesis testing where the Impact of GSCM is tested on the
- various sector to ascertain its effectiveness.
- 535 Some of the basic assumptions of the correlation analysis were met. The variables used for the
- analysis were extracted from the questionnaires and all the analysis were carried out using Statistical
- 537 Package for Social Science (SPSS) version 27.
- 538 The decision rules applied in this study are;
- Reject H_0 if P-value is less than or equal the level of significant = 0.05.
- Accept H₀ if P-value is greater than the level of significant = 0.05
- 541 Hypothesis one:
- 542 H0: The Global Supply Chain Management (GSCM) practices has no significant impact on the
- economic growth and productivity of various organisations

HI: The Global Supply Chain Management (GSCM) practices has significant impact on the economic

growth and productivity of various organisations

Dependent Variable: Economic Growth

547 Independent variable: Global Supply Chain Management (GSCM)

| Different Sectors or Divisions | GSCM Practices Grades | Economic Growth or Productivity |
|-----------------------------------|--------------------------|---------------------------------|
| Manufacturing Sectors | 3.24 | 3.05 |
| Suppliers | 4.17 | 4.25 |
| Transport Sector | 4.00 | 4.00 |
| Logistics | 3.86 | 4.29 |

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549 The Pearson Correlation Coefficient (r) = 0.95, indicating a strong positive linear relationship

between Global Supply Chain Management (GSCM) practices and economic growth and productivity

of the sectors.

552 The t – Statistics testing (t) = 3.88

The p-value P = 0.06.

554 The sample No. N = 90

Hypothesis Testing

- Null Hypothesis (H₀): GSCM practices have no significant effect on economic growth.
- Alternative Hypothesis (H₁): GSCM practices have a significant effect on economic growth.

Given that the p-value (0.06) is slightly above the common significance level of 0.05, we fail to reject the null hypothesis. This suggests that, based on this data, there isn't sufficient statistical evidence to conclude a significant effect of GSCM practices on economic growth. Therefore, while the Pearson correlation coefficient indicates a strong positive relationship between GSCM practices and economic growth, the p-value suggests that this relationship isn't statistically significant at the 0.05 level. It's important to note that the small sample size (n=4) may have limit the power of this analysis. Further research with a larger dataset is recommended to draw more definitive conclusions.

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RECOMMENDATION FOR ENHANCING THE GLOBAL SUPPLY CHAIN PRACTICES

To maximize the benefits of global supply chains while mitigating challenges, Nigeria should adopt the following strategies:

1. **Strengthen Infrastructure**: Government should Invest in roads construction, ports expansion and construction, and constant energy supply to facilitate, seamless trade and logistics

572 operations. The government can also encourage the private sector to partner with the 573 government in providing infrastructural amenities. 574 2. Enhance Industrialization: The Government should encourage building of industries by 575 provide the necessary resource and encouragement to investor through the provision of 576 incentives. This Promote value addition to materials by encouraging local manufacturing and processing industries to research on products manufacturing. 577 578 3. Improve Regulatory Frameworks: The government should introduce policies that will 579 improve the regulatory framework to check the excesses of agencies and to Simplify trade regulations and ensure policy consistency to attract investors. Implement consistent and 580 581 transparent trade policies to attract foreign investments. Streamline customs procedures and reduce bureaucratic delays to facilitate smoother cross-border trade. Encourage fair 582 labour practices and corporate social responsibility initiatives. 583 584 585 4. **Develop Human Capital**: The government should Invest in education and skills development centres as well as encourage private sector to invest in educational institution and also 586 create and train workforce capable of handling advanced supply chain processes or skills. 587 The government should foster public-private partnerships to provide specific - industry 588 589 training programs. The encouragement of research and development (R&D), logistics and supply chain 590 591 management training will also help to increase the acceptance of GSCs in the country. 5. Promote Sustainability: Organisation should be encouraged to carry out project that will 592 593 promote environmental law and labour regulations to ensure responsible business practices. 594 Strengthen intellectual property rights and contract enforcement to foster a reliable 595 business environment. 596 6. Enhancing Regional and International Trade Agreements 597 Strengthen Nigeria's participation in regional trade agreements such as the African Continental Free Trade Area (AfCFTA). 598 599 Foster diplomatic relations to ease trade restrictions and improve international or global 600 market access. Promote integration with global supply networks through strategic partnerships. 601 7. Promoting Sustainable and Ethical Supply Chain Practices 602 603 Implement policies that ensure environmental sustainability in supply chain operations. 604 Adopt circular economy principles to minimize waste and enhance resource efficiency as 605 well as encourage ethical practices will go a long way in boosting the businesses. 606 8. Leveraging Digitalization and Technology

Data and digital record collection and storage as well as Adopt block chain technology for

intelligence and big data analytics for demand forecasting and risk management, to enable

supply chain transparency and fraud prevention. Also permit the utilization artificial

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Promotion of e-commerce platforms to connect local producers with international buyers. 610 611 This will enable the global system to become a unified system of operation. 612 613 **CONCLUSION** 614 Global supply chains present both opportunities and challenges for Nigeria. While they contribute to 615 economic growth, job creation, and technology transfer, issues such as infrastructure deficiencies, 616 regulatory hurdles, and supply chain vulnerabilities must be addressed. By implementing strategic 617 policies and investments, Nigeria can optimize its participation in global supply chains, ensuring 618 sustainable economic development. 619 The literature underscores that while global supply chain management offers significant 620 opportunities for Nigeria in terms of economic growth, technology transfer, and trade expansion, 621 challenges such as infrastructural weaknesses, policy inefficiencies, and supply chain vulnerabilities 622 persist. Addressing these challenges through strategic policy interventions, investment in 623 infrastructure, and sustainable practices can enhance Nigeria's position in global supply chains. 624 Improving global supply chain management in Nigeria requires a multifaceted approach, 625 incorporating infrastructure development, policy reforms, technology adoption, and capacity 626 building. By addressing these key areas, Nigeria can strengthen its global supply chain position, 627 attract investments, and drive long-term economic growth.

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Table 1 – Quantities of Questionnaire Distributed, Collected and Utilised as Sample for the

Global Supply Chain Management

| Source/Sectors | Total Sample | Proportional Sample – (Returned) | Approximated Proportional Sample (Useful) |
|--------------------------|--------------|----------------------------------|---|
| Manufacturing Sector | | | |
| Unique Leather Co. Lrd | 10 | 8 | 8 |
| N-Sama Global Industries | 10 | 6 | 6 |
| Salient Industrial Ltd | 10 | 7 | 7 |
| Fas Agro Industries Ltd | 10 | 5 | 5 |
| M.C. Plastics Co. Ltd. | 10 | 6 | 6 |
| Tower Nig. Ltd | 10 | 4 | 4 |

| | 60 | 36 | 36 |
|---------------------------------|-----|----|----|
| Suppliers | | | |
| Avery Nig. Ltd | 10 | 4 | 2 |
| TekniTeed Nig. Ltd | 10 | 7 | 3 |
| Fouani Nig. Ltd | 10 | 6 | 5 |
| Mikano Nig. Ltd. | 10 | 8 | 8 |
| Jubaili Bros | 10 | 5 | 5 |
| | 50 | 30 | 23 |
| Transport and Logistics Company | | | |
| DHL Int' Ltd. | 10 | 7 | 6 |
| Fedex Couriers Services | 10 | 5 | 5 |
| A.A. Rano Airlines | 10 | 6 | 6 |
| UAS Airlines | 10 | 5 | 5 |
| Max Airlines | 10 | 7 | 6 |
| | 50 | 30 | 28 |
| Grand Total | 160 | 96 | 87 |

Table 2 – Analysis of the Distribution of Questionnaires

| Category of respondents | Questionnaire administered | Questionnaire returned | % returned | Questionnaire duly filled | % duly filled |
|----------------------------|----------------------------|------------------------|---------------|------------------------------|------------------|
| Manufacturing | 60 | 40 | 67.0% | 38 | 63.3.0% |
| Distribution / Supplier | 50 | 25 | 50.0% | 24 | 48.0% |
| Transport | 25 | 16 | 64.0% | 14 | 56.0% |
| Logistics | 25 | 15 | 60.0% | 14 | 56.0% |
| Total | 160 | 96 | 60.0 % | 90 | 57.0% |

| S/No | To what Extent | N.A | V.M | S.M | Н | V. H | Total | Mean | Decision |
|------|----------------|------|-------|-------|-------|-------|-------|-------|----------|
| | the | 1 | 2 | 3 | 4 | 5 | | Score | or |
| | Organisation | | | | | | | | Comment |
| | engage in | | | | | | | | S |
| | GSCM | | | | | | | | |
| 1 | Manufacturers | 3 | 7 | 9 | 16 | 3 | 38 | 3.24 | Moderate |
| | | (8%) | (17%) | (24%) | (43%) | (8%) | | | |
| 2 | Suppliers | 1 | 1 | 2 | 9 | 11 | 24 | 4.17 | High |
| | | (5%) | (5%) | (9%) | (38%) | (43%) | | | |
| 3 | Transporters | 0 | 1 | 3 | 5 | 5 | 14 | 4.00 | High |
| | | (0%) | (8%) | (22%) | (36%) | (36%) | | | |
| 4 | Logistics | 0 | 1 | 4 | 5 | 4 | 14 | 3.86 | High |
| | | (0%) | (8%) | (29%) | (36%) | (29%) | | | |

Table 4 – Effect of GSCM on the Economy Growth or Productivity of the Sectors

| S/Nos | The Impact of | | | RESPONDENCE – Impact of GSCM on Sectors | | | | | |
|--------|---------------------|------|-------|--|-------|-------|-------|-------|-------------|
| 3,1103 | GSCM on Economic | | | The stablished Timpact of Oscial off Sectors | | | | | |
| | Growth or | | | | | | | | |
| | Productivity scales | V.IN | INEF | NA. | FFF | V.EF | Total | Maan | Desision or |
| | | | | M | EFF | | Total | Mean | Decision or |
| | | 1 | 2 | 3 | 4 | 5 | | score | Comment |
| 1 | Manufacturers | 2 | 8 | 8 | 18 | 2 | 38 | 3.05 | Moderate |
| | | (5%) | (21%) | (21%) | (48%) | (5%) | | | |
| 2 | Suppliers | 0 | 0 | 3 | 10 | 11 | 24 | 4.25 | Very |
| | | (0%) | (0%) | (12%) | (42%) | (46%) | | | Effective |
| 3 | Transporters | 0 | 1 | 2 | 7 | 5 | 14 | 4.00 | Effective |
| | | (0%) | (8%) | (15%) | (50%) | (27%) | | | |
| 4 | Logistics | 0 | 0 | 4 | 5 | 5 | 14 | 4.29 | Very |
| | | (0%) | (0%) | (32%) | (34%) | (34%) | | | Effective |
| | | | | | | | | | |