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1	When Technology Transfer Enables Sales Growth
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6 Abstract

Increasing sales performance in any organization requires refinement in product quality, agility 7 in service delivery, innovation, internal flexibility, rareness, and lowest cost of operations. This 8 paper investigated the effect of technology transfer on sales growth of selected agroprocessing 9 companies in Lagos State, Nigeria. The cross-sectional survey research design was adopted. 10 The population was 1,150 managers and engineers of selected three agro-processing companies 11 in Nigeria. A sample size of 675 was determined using Krejcie and Morgan formula. A 12 proportionate stratified random sampling technique was adopted in selecting the respondents. 13 A validated questionnaire was administered for data collection. Cronbach's alpha reliability 14 coefficients for the constructs ranged from 0.72 to 0.97. A response rate of 9315 16

17 **Index terms**— technology transfer, sales growth, technology infrastructure, technology adoption, agro-18 processing companies

¹⁹ 1 Introduction

anagers across the globe are confronted with the gale of unstable business environment, product imitation, 20 mass production, and substandard products in the market space. Achieving and sustaining sales growth by 21 many organizations is becoming extraordinarily difficult as the competition among organizations are fierce and 22 imitators are quick to replicate product and service innovation from other organization. Therefore, increasing 23 sales performance requires refinement in product quality, agility in service delivery, innovation, internal flexibility, 24 25 rareness, and lowest cost of operations. These have necessitated the agro-processing companies in Nigeria to shift 26 from transaction-based business activities to value-added business activities which seems to have placed company's survival on its ability to successfully adapt and adopt the concept of technology transfer dimensions such as 27 knowledge transfer, skill acquisition, technology innovation, technology adoption, and technology infrastructural 28 development in response to these changes in demand. 29

Many scholars had conducted studies on the impact of technology transfer on sales growth in the agro-allied 30 sector, telecommunication sector, SMEs, iron, and steel sector ?? Ajibola, Safe & Ercam, 2011). However, some of 31 the studies found a significant positive effect, while others found a negative effect. Studies on technology transfer 32 in the agro-processing industry in Nigeria are not comprehensive enough to address the low level of investment, 33 low technical capabilities, infrastructural development deficit, low sales turnover by local producers, and poor 34 market share experienced in that sector (PWC, 2017; Oyeniran & Onikosi, 2016). According to ??nyanwu 35 36 and Kponnouon (2017), poor technology transfer between research institutions and organizations; declining 37 infrastructural development (power) affected the operational capabilities of the agroprocessing companies in 38 Nigeria. Furthermore, policy inconsistency on tariff and importation, lack of patronage of Nigerian products by 39 the Government at the highest-level and high taste for foreign products affect sales growth in the agro-processing sector. This gap was contrary to the Nigerian Government policy on the agro-processing industry, which states 40 that government must protect and patronize products from their local industries except where such capabilities 41 and products are not available locally (Oigiagbe, George, & Owoyemi, 2012). Unfortunately, government reneged 42 on his policy and allows continuous importation of agroproducts such as textile, tomato, flours milling, Wine, Fish, 43 Process Meat, fruit juice, ginger oil, grape wine, vegetable oil, honey, pesticide formulation, rice mill, furniture's, 44

rubbers, chemical, and many other agroallied products, rather than patronizing Nigerian made products (Onimole
 & Olaiva, 2018).

Furthermore, the poor state of technology capabilities and infrastructure have affected the agroprocessing industry and many other industries in Nigeria (Oyeniran & Onikosi, 2016). Report from the National Bureau of

49 Statistics (2018) shows about N220 Billion Naira is spent annually to import Rice, Sesame Seeds, Crude Palm 50 Kernel, Cashew Nuts, Fish, Wine, Soya Beams, and many other agro-allied products into Nigeria despite having 51 arable land, good raining season, water and human capacity to process those agro-allied products (Houeninvo,

⁵² 2018).

In wood making and furniture production sector; Nigeria with one of the finest land that produces strong and enduring woods; harvest and export those wood to China, India and other foreign countries, and in turn import with Millions of Dollars, Doors, Tables, Bed, Chair, Paper, and other bye products of wood into Nigeria(National

56 Bureau of Statistics [NBS], 2018).

⁵⁷ 2 a) Literature Review

The power of technology transfer to stimulate sales growth in a global business environment that is uneven has 58 stirred academic debate. Othman, Mohamad, and Abu (2017) and The United Nations Conference on Trade 59 and Development [UNTAD] (2014) opined that for any attempt directed towards construing the term technology 60 61 transfer to be accepted, such definition must be functional rather than formal, this has accounted for the lack 62 of consensus among scholars on a general definition of technology transfer. To aid clarity to the concept, the United Nations, in a document designed to help countries plan their technological development, has adopted a 63 broader view of technology, referring to it as a combination of equipment and knowledge transfer for corporate 64 performance measured in term of knowledge transfer, skill acquisition, technology infrastructure, technology 65 innovation, and technology adoption (UNCTAD, 2014). 66

Adebayo, Olagunju, Ogundipe, and Salman (2017) defined technology transfer as the process by which science 67 68 and technology are diffused throughout the human activity. Similarly, Murad and Thomson (2011) refer to 69 technology transfer as the process by which basic science research and fundamental discoveries are developed into practical and commercially relevant applications and products (Sonmez, 2013). Byukusenge, Munene, and 70 71 Orobia (2016) defined technology transfer as a process by which knowledge or technology developed in one place is applied and exploited in another place for some other purpose. The movement of technology, according to Bilgin, 72 Lau, and Karabulut (2012), can be horizontal and or vertical; it is vertical when the movement is from a basic 73 research to applied research through development and then to production. The movement is horizontal when 74 75 the technology in used in one organization is moved to another organization. Also, it is widely acknowledged that most technology transfers take place through investment contracts with multinational corporations, since 76 77 multinationals are the sources of most of the world's technology capabilities (Keller & Yeaple, 2009). Technology 78 is primarily transferred in three forms. First, it can be transferred via machinery or other intermediate goods. 79 This is normally adequate for manufacturing purposes where the nature of the technology is not complex, and where no proprietary techniques or processes are involved (Sonmez, 2013). Technology can also be transferred 80 81 through individual experts. Although this technique is employed relatively often, it normally goes unpublicized (UNCTAD, 2018). Transferring technology via a competent expert has the advantage of cost-savings to the 82 recipient, but it is generally suitable only for small and medium-sized projects where the technology is simple and 83 unpatented. Finally, technology can be transferred through technical know-how, patented or unpatented, or other 84 information subject to proprietary rights (Ovadia, 2013) ??016) study found that technology infrastructure and 85 adoption have a positive effect on sales growth ratio measured by gross profit margin, Furthermore, Mappanyuki 86 87 and Sari (2017) found a significant and positive relationship between knowledge transfer and sales growth and 88 profitability, which is closely linked with corporate performance outcomes. However, no negative association was found between technology transfer and sales growth. Given the aforementioned problems enumerated earlier, this 89 study investigated the effect of technology transfer (Knowledge transfer, technology innovation, skills acquisition, 90 technology infrastructure, and technology adoption) on sales growth of selected agro-processing companies in 91 Lagos State, Nigeria. akin to exploration, where people generate new ideas and concepts together with existing 92 knowledge for innovation of products, services and or method. Consequently, knowledge transfer and technology 93 transfer are used interchangeably in innovation and developmental studies (Ngwiri et al., 2016). Nonetheless, the 94 term differs as such, "technology transfer" has to do with the transfer of capital goods such as machinery and 95 equipment, in contrast, "knowledge transfer" has to do with the transfer of tacit and explicit knowledge such as 96 know-how, management, and technical skill (UNCTAD, 2018). 97 98 Technology innovation according to (Berraies & Chaher, 2014; Carlos, 2013; Choi & Lim, 2017) include a new 99 design, new systems, new applications, new market, and new operating system. Technology innovation is a process

that transforms users or manufacturer ideas into outputs, which increases customer value. The ability to innovate is considered a vital aspect of any business organization (Jonathan et al., 2017). Technology innovation from the perspective of the European Commission has three definitions; it is the successful production, assimilation and exploitation of novelty in the economic and social spheres; it is the renewal and enlargement of the range of products and services and the associated markets; it is the establishment of new method of production, supply, and distribution; the introduction of changes in management, work organization, and the working conditions and

106 skills of the workforce.

Skill acquisition is a dimension of technology transfer, and according to Santhosh (2014), is the capability to 107 be trained on a particular task or function and become an expert in it. It is a form of prolonging learning about 108 an event that is not inmate (Umunadi, 2010). Skill acquisition is an important strategy for an individual and the 109 organization (Ezeani, 2015). According to Sule (2015), acquiring technology skills requires technical education, 110 where employees are equipped with the necessary skill, competencies, and values required to succeed in their 111 industry. Okoli and Binuomote (2015) defined skill acquisition as a form of knowledge and technical know-how 112 transfer and the ability to adapt new method and technology in the field of manufacturing. The researchers 113 went further to measure skill acquisition with variables such as technical skill, vocational skill, strategic skill, 114 software application development skill, automation skill, business development skill, and intellectual skill. They 115 argued that only an individual or group that obtained technical workforce could operate effectively. Jacqueline 116 and Joshua (2016) emphasized that technical education contributes to creativity in the agro-processing industry 117 in the developed countries and employees acquiring technical skills are the practical and dependable option for 118 economic recovery and survival of any nation's economy. 119

Technological infrastructure is construed to entail the enabling foundation of shared technology capabilities 120 upon which the entire business depends (Oyeniran & Onikosi, 2016). Infrastructure in this context is seen 121 as a set of shared and physical technological resources that constitute the foundation for business applications 122 123 (Ogun, 2010). Similarly, Link, Oliver, and O'Connor (2016) opined that the availability of a flexible technological 124 infrastructure, when duly tapped into, gives an organization competitive edge, which is an essential ingredient 125 required in the building of a sustainable competitive advantage and achieving sales growth, which accounts for the much emphasizes placed on technological infrastructure by many researchers (Othman et al., 2017). Nwankwo, 126 Ibeta, and Nwaogbe (2013) maintained that globally, the creation and sustenance of an effective technological 127 infrastructure has become a key requirement for venturing into business, this information dissemination and 128 knowledge are vital in the global market. 129

According to Aromolaran, Akerele, Oyekunle, Sotola, and Taiwo (2017), technology adoption is the extent to 130 which a given technology becomes accepted and incorporated into approved social practices. The criteria that 131 could contribute to technology adoption is information, where manufacturing companies need certain information 132 on how a technology works, where a particular data is stored, how is protected, who has access to the data, which 133 of the data is registered and who is operating the data. Consequently, Rogers (1995) diffusion of innovation 134 theory focuses on the adoption of innovation by individual users and the organizations and the factors that affect 135 the rate of adoption of technology which include, relative advantages of the technology, which suggest its rate of 136 137 adoption as it relates to the degree to which an innovation is perceived.

¹³⁸ 3 b) Sales growth

139 Sales growth is the dependent variable of this study, and according to Hansen and Mowen (2012), is an increase 140 in sales from year to year or from time to time. Hansen etal. (2012) further defined sales growth ratio as a mechanism of measuring the difference in the value of sales over some time. Massem (2015) defined sales growth 141 142 as a metric that measures the ability of a company's sales team to increase revenue over a fixed period of time. Similarly, Mappanyuki and Sari (2017) describe sales growth as a measurement of organization's profitability and 143 its business performance. Mappanyuki and Sari (2017) further expressed that sales growth shows the company 144 growth opportunities in the future. According to Jonathan et al. (2017), sales growth is a strategic indicator 145 that entrepreneur used in making decision and measuring the ability of sales personnel over some period. The 146 researchers went further to express that without revenue growth; business enterprises are at risk of being overtaken 147 148 by ??018), the phenomenon of sales growth was best explained as an increase in sales, which is scored on 149 either monthly, quarterly, and annually or from time to time. Sales growth is a yardstick for gauging corporate performance and its productivity. Researchers such as Hansen and Mowen (2012) opined that the phenomenon 150 of sales growth connotes an upsurge in sales which may be measured annually. Mappanyuki and Sari (2017) view 151 corroborates Hansen and Mowen (2012), understanding that firms with a history of increased sales growth rate, 152 stand the chance of achieving and sustaining high liquidity, saving, and re-investment in assets and securities. 153 Similarly, Massem (2015) emphasized that sales growth is believed to be influenced by the introduction of a new 154 product line as well as the marketing strategies adapted by an organization. 155

In Nigeria, many agro-processing companies have closed down their business while some had been taking over 156 by another due to their poor sales performance (Abu et al., 2018). Academic discussion has now refocused on how 157 agro-processing companies can increase their sales performance through investment in technology infrastructure, 158 product/service innovation, procedural innovation, and marketing innovations which are novel. Mappanyuki 159 and Sari (2017) maintained that for any organization to achieve sales turnover, market share, gross earning and 160 161 profitability, such organization must continue to be innovative in terms of their technological design, applications, 162 systems, marketing, and operations. Similarly, Berraies and Chaher (2014) argued that the decline in many organizations sales growth cuts across developed and developing countries, and further identified strategies for 163 strong sales growth which include increasing penetration in existing markets, extending the product line to a new 164 complementary product that existing clients would be pleased with; focusing on new segments and targeting new 165 export client; aggressively opening up new channels of distribution and offering new services to clients, so they 166 become more enamored with firm products and services could increase sales. 167

¹⁶⁸ 4 c) Technology transfer dimensions and sales growth

Several authors had carried out studies on technology transfer and sales in the manufacturing and agro-processing 169 industry in Europe, Asian and Africa, and found a significant positive relationship between technology transfer 170 and sales growth ?? Ajibola, ?? 012) findings that productivity was higher among the male farmers in Nigeria 171 than the female farmers which lead to their sales growth. Similarly, Kai (2014) found that improved quality 172 of domestic chemical production and the acceptance of lower profit margins are the likely two most important 173 reasons for the higher sales growth of domestic chemical companies in China. Moreover, Kathy (2017) found a 174 significant positive relationship between penetrating a bigger market and sales growth of products innovation. 175 Similarly, Bilgin et al. (2012) found that foreign-owned firms performed better than their domestically owned 176 counterparts, and this finding is consistent with the findings of Kathy (2017). Mappanyuki and Sari (2017) study 177 revealed that UK corporations owned by foreigners perform much better in terms of sales turnover compared 178 to domestically owned firms. The findings of Mappanyuki and Sari (2017) corroborated the results of Bilgin et 179 al. (2012) that found that foreign-owned firms performed better than their domestically owned counterparts, 180 181 because of their technical capabilities.

Similarly, Da Silva, Carlos, Baker, Shapherd, and Jenane (2009) found that global trends have encouraged 182 the growth of agro-processing sectors and offered a competitive opportunity for SMEs through the development 183 of new and growing markets. The study further found that agro-processing companies contributes to more-184 efficient use of resources and offer improvements in food safety. These findings concurred with the findings of 185 ??gwiri et David and Xionggliang (2015) found that knowledge sharing on technology activities among industries 186 producing similar products largely improve the innovation performance of most industrial firms, which translated 187 to their sales growth. The result of the study corroborated with the findings of Ngwiri et al. (2016). An 188 empirical study conducted by David and Xiong gliang (2015), found that technology activities largely improve 189 the innovation performance of most industrial firms translating to their sales growth Theoretically, the diffusion 190 of innovation theory supported this study and other findings from previous studies, characterized by relative 191 advantage, compatibility, and simplicity that cumulated to sales growth (Mappanyuki & Sari, 2017). The theory 192 further revealed that the attitude of staff in an organization remains critical, as it influences the willingness of 193 194 the organization to adopt or reject technology transfer to achieved and sustained their sales growth (Byukusenge 195 et al., 2016).

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¹⁹⁷ 6 Methodology

This study adopted a cross-sectional survey research design to examine the effect of technology transfer on 198 199 sales growth of selected agro-processing companies in Lagos State, Nigeria. The design was adopted because of 200 its economic and scientific advantages, as evident in the works of other scholars (Griffee, 2012; Greene, 2008). 201 The sector was selected due to its strategic importance to knowledge warehousing, technology innovation, dissemination, and its economic contribution to the growth and the development of Nigeria. Managers and 202 engineers were selected from the selected three agro-processing companies (Dangote Industries Limited, Honeywell 203 Flour Mills Limited, and UAC Foods) located in Lagos State Nigeria with a population of 1,150. The managers 204 and engineers were selected due to their technical and operational knowledge regarding technology transfer. The 205 targeted respondents were 675 staff of agroprocessing companies in Nigeria located in Lagos State. 206

A structured questionnaire was adapted and its construct, content, and criterion validity were established before its usage. The construct and content validity were established throughfactor analysis by the use of Kaiser-Meyer-Olkin and the Bartlett tests of sphericity. The KMO test results was greater than 5% and Bartlett test of Sphericity results was less than 5% showing that statements contained in the instrument actually measured what were intended. The reliability of the research instrument was ascertained based on the Cronbach alpha measure of reliability, which is not below 0.7(Owino, Kibera, Munyoki, & Wainaina, 2014).

²¹³ 7 a) Model Specification

In order to investigate the effect of Technology Transfer (X) on Sales Growth (Y), a mathematical model was established. That Y is a function X; Y = f(X) n. As such, X is assumed to exhibit a profound effect on Sales Growth.

Hence the model was structured as such; $SG = a \ 0 + ? \ 1 \ KT \ i + ? \ 1 \ SA \ i + ? \ 1 \ TI \ i + ? \ 2 \ TI \ i + ? \ 3 \ TA \ i + \mu \ i$ SA = Skill Acquisition TI = Technology Infrastructure TA = Technology Adoption Therefore, Technology Transfer is hypothesized to drive Sales Growth (p< 0.05; will be rejected).

221 **8 III.**

9 Results and Discussion

The study investigated the effect of technology transfer dimensions on sales growth of selected agroprocessing companies in Lagos, State Nigeria. The respondents were requested to rate their perception of various items about technology transfer dimensions (knowledge transfer, technology innovation, skills acquisition, technology infrastructure, and technology adoption) and sales growth. The findings of sales growth (sales turnover, market share, profitability, and gross earning) was presented, compared with the findings of technology transfer dimensions.

²²⁹ 10 Summary of multiple regression analysis

²³⁰ 11 a) Interpretation

The coefficient of multiple determination, Adjusted R 2 is 0.200, F(5, 669) = 34.632, p<0.05), which indicates that technology transfer dimensions explained 20% of the changes in the sales growth of selected agro-processing companies in Lagos State Nigeria, while the remaining 80% could be attributed to other factors not included in this model. Also, the F-statistics (df = 5, 669) = 34.632, p<0.05) indicates that the overall model is significant in predicting the effect of technology transfer dimensions on sales growth. This means that technology transfer dimensions have a significant effect on sales growth of selected agro processing companies in Lagos State, Nigeria. The multiple regression model is thus expressed as: SG = 0.716 + 0.162SA + 0.170TI + 0.180TA ?? eq. i

²³⁸ 12 Where: SG = Sales Growth SA = Skills Acquisition TI = ²³⁹ Technology Infrastructure TA = Technology Adoption

The results of the multiple regression analysis indicate that when skills acquisition, technology infrastructure, and 240 technology adoption are improved by one unit, sales growth would be positively affected by an increase of 0.162, 241 0.170 and 0.180, respectively. This implies that an increase in skills acquisition, technology infrastructure, and 242 technology adoption would lead to an increase in sales growth of the selected agroprocessing companies in Lagos 243 State, Nigeria. The result shows an overall statistical significance with p < 0.05, which implies that technology 244 transfer dimensions are important determinants of sales growth of selected agro-processing companies in Lagos 245 State, Nigeria. The result suggests that agro-processing companies should pay more attention to improving skills 246 acquisition, technology infrastructure, and technology adoption to increase their sales growth. Therefore, the 247 248 null hypothesis, which states that technology transfer dimensions have no significant effect on sales growth of 249 selected agro-processing companies in Lagos State Nigeria, was rejected.

²⁵⁰ 13 b) Discussion of Findings

The results of the multiple regression analysis between technology transfer dimensions and sales growth of selected agro-processing companies in Lagos State Nigeria, are statistically significant. It means any increase in skill acquisition, technology infrastructure, and technology adoption will have a corresponding increase in sales growth of selected agro-processing companies in Lagos State, Nigeria.

Several authors in their work on technology transfer dimensions and sales growth, found a positive relationship between technology infrastructure, technology adoption, and sales growth; while other found a negative relationship between skill acquisition and sales growth, which confirmed this study results ?? Ajibola, Mappanyuki and Sari (2017) confirmed that sales growth increases economies of scale of business with a greater possibility of market share, sales turnover, gross earning, and profitability. Similarly, sales growth results in generating more profit, reduce external risks, influence market price, and increases the financial viability of an agro-processing companies.

simplicity that cumulated to sales growth (Rogers, 1995). The theory further revealed that sales growth is in 262 tandem with the attitude of staff in an organization and such remains important to corporate performance. These 263 assumptions were supported by ??appanyuki The results revealed that out of all the dimensions of technology 264 transfer, only skill acquisition, technology infrastructure, and technology adoption had a significant effect on sales 265 growth of selected agroprocessing companies in Lagos State, Nigeria. The results showed that skill acquisition (? 266 = 0.162, t = 3.668, p<0.05), technology infrastructure (? = 0.170, t = 4.177, p<0.05) and technology adoption 267 (? = 0.180, t = 4.840, p < 0.05) had a positive and a significant effect on sales growth. Furthermore, the results 268 revealed that technology innovation (? = 0.034, t = 0.825, p>0.05) had a positive and insignificant effect on sales 269 growth, in comparison, knowledge transfer (? = -0.010, t = -0.347, p> 0.05) had a negative and insignificant effect 270 on sales growth of selected agro-processing companies in Lagos State, Nigeria. This implies that skill acquisition, 271 technology infrastructure, and technology adoption are important determinants of sales growth of selected agro-272 processing companies in Lagos State, Nigeria. Furthermore, technology transfer dimensions were argued to have 273 274 meaningfully benefited businesses and e-commerce enterprises such as Amazon, eBay, Etsy, Newegg, Facebook, 275 Konga, Jiji, Alibaba, and many other conventional and online marketing and sales companies across the globe and 276 have improved production processes in the agro-processing industry space in America and most Asian countries 277 with a significant relationship with labor productivity and sales growth (Mappanyuki & Sari, 2017; Nyori & Ogola, 2015). 278

Theoretically, the diffusion of innovation theory underpinned this study through the assumption of relative advantage, observability, compatibility, and IV. onclusion and ecommendation reviewed on technology transfer to clarify what the term means, how it can contribute to building technological capabilities and promote sales turnover in any organization. This article outlines the various approaches that have been pursued to measure technology transfer variables gaps that exist in the agroprocessing companies. Our findings support the fact that technology transfer dimensions are an important driver of sales growth and overall firm performance and should be developed and executed as an integral part of the business strategy. Managers should recognize and manage business innovations to boost their operational performance. Having a clear understanding of the exact nature of knowledge transfer, skill acquisition, technology innovations, technology adoption, and technology infrastructure will help firms to achieve sales growth and profitability.

The study recommended that an organization should invest more in developing their technology infrastructure to support their operations. Also, policy makers should address the challenges of policy inconsistency on tariff and importation, and lead by example through the patronage of made in Nigerian products.

²⁹² 14 Global

Abu et al. (2018),

Figure 1:

Figure 2:

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- [Lars et al. ()] 'A broadened innovation support for mutual benefits: Academic engagement by universities as
 part of technology transfer'. J Lars , B Enrico , L Lars-Eric . International Journal of Technology Management
- 296 & Sustainable Development 2016. 14 (2) p. .
- [Anyanwu and Kponnou ()] 'Accelerating agro manufacturing to feed Africa'. J C Anyanwu , M Kponnou .
 African Development Review 2017. 29 (2) p. .
- [Umunadi ()] 'Acquisition of skills and competences by technical education teachers and instrument for national
 growth in Nigeria'. E K Umunadi . Journal of Qualitative Education 2010. 6 (1) p. .
- [Nyori and ogola ()] 'Advanced manufacturing technology adoption in manufacturing companies in Kenya'. G M
 Nyori , J M &ogola . International Journal of Research in Engineering and Technology 2015. 4 (10) p. .
- [Silva et al. ()] Agro-industries for development, Da Silva , CarlosA , D Baker , A W Shepherd , C Jenane , SM
 . 2009.
- 305 [Massem ()] 'An agri-business industry in the making'. A Massem . African Business Journal 2015. 1 (2) p. .
- [Griffee ()] An introduction to second language research methods: design and data, D T Griffee . CA: TESL-EJ
 Publications. 213. 2012. (1st ed.)
- [Aromolaran et al. ()] 'Attitudes of farmersto extension trainings in Nigeria: Implications for adoption of
 improved agricultural technologies in Ogun State Southwest Region'. A K Aromolaran , D Akerele , O
 Oyekunle , E A Sotola , L K Taiwo . Journal of Agricultural Sciences 2017. 62 (4) p. .
- ³¹¹ [Ojeaga ()] 'Can Africa's young drive innovation? Investigating the effect of entrepreneurial innovation on
 ³¹² economic growth in Africa'. P Ojeaga , I . Journal of Applied Quantitative methods 2016. 10 (4) p. .
- [Ajibola ()] 'Capital market development, entrepreneurship performance and economic growth in Nigeria'. A
 Ajibola . Scholedge International Journal of Management & Development 2016. 3 (2) p. .
- [David et al. ()] 'Collaboration, transferable and non-transferable knowledge and innovation: A study of a cool
 climate wine industry (Canada)'. D David , S Richard , G Regis . Growth and Change 2015. 46 (1) p. .
- ³¹⁷ [Choi and Lim ()] 'Contextual factors affecting the innovation performance of manufacturing SMEs in Korea: A
 ³¹⁸ structural equation modelling approach'. Y S Choi , U Lim . Sustainability Journal 2017. 9 (6) p. .
- [Hansen and Mowen ()] 'Cornerstones of cost management'. D R Hansen , M M Mowen . Business & Education
 2012. 2 p. .
- 321 [Rogers ()] Diffusion of innovations (Fourth Edition), E M Rogers . 1995. New York: The Free Press.
- Houeninvo ()] 'Driving factors of intra-regional exports of manufactured goods: The case of west African
 economic and monetary union'. T Houeninvo . ASSA Conference, (Philadelphia) 2018.
- 324 [Greene ()] Econometric Analysis. (6 th Ed.), W H Greene . 2008. New York: Pearson Press.
- [Link et al. ()] Economic analysis of technology infrastructure needs for advanced manufacturing: Advanced robotics and automation, A N Link, Z T Oliver, A C Connor. NIST GCR 16-005. 2016. Gaithersburg, MD: NIST.
- [Von et al. ()] Enabling knowledge creation: How to unlock the mystery of tacit knowledge and release the power of innovation, K Von, G Ishijo, K Nonaka, I. 2000. Oxford, NY: University Press.
- [Sule ()] Entrepreneurship education as strategy for sustainable development in Nigeria. International conference
 on global business, economics, finance and social sciences, S Sule . 2015. p. .
- [Awotide et al. ()] Impact of improved agricultural technology adoption on sustainable rice productivity and rural
- farmers' welfare in Nigeria: A local average treatment effect (LATE) technique, B A Awotide, A Diagne, B
 T Omonona. 2012. Kigali, Rwanda. (Paper presented at the African Economic Conference)
- [Safe and Ercam ()] 'Improving entrepreneur's management skills through entrepreneurship training'. S Safe , S
 Ercam . Journal of Commerce & Management Thought Santhosh, S. P. (ed.) 2011. 2014. 5 (3) p. . (The effects
- of science technology-innovation on competitiveness and 48)
- [Ovadia (ed.) ()] Indigenization vs. domiciliation: A historical approach to national content in Nigeria's oil and
 gas industry, J S Ovadia . T. Falola & J. Achberger (ed.) 2013. London, England: Oxford Press. (The political
 economy of development and underdevelopment in Africa)
- 341 [Ngwiri et al. ()] 'Influence of knowledge technology transfer on the growth of micro and small catering enterprises
- in Nairobi County'. B M Ngwiri, E J Mukulu, G Jane. Kenya. International Journal of Science and Research
 Publication 2016. 6 (1) p. .
- [Oyeniran and Onikosi ()] 'Information and telecommunication infrastructure and economic growth: An experi ence from Nigeria'. W I Oyeniran , A Onikosi . Serbian Journal of management 2016. 11 (2) p. .
- [Ogun ()] 'Infrastructure and poverty reduction: Implications for urban development in Nigeria'. T P Ogun.
 Urban forum 2010. 21 (3) p. .

- [Jonathan et al. ()] 'Innovation and growth with financial and other frictions'. C Jonathan , M Cesaire , W 348 Randall . International Economic Review 2017. 58 (1) p. . 349
- [Carlos ()] 'Innovation and technology transfer of environmentally sound technologies: The need to engage in a 350
- substantive debate'. C Carlos. Review of European Community & International Environmental Law 2013. 29 351 (1) p. . 352
- [Nwankwo et al. ()] 'Integrating technical and vocational education in youth empowerment programmes: An 353 approach to nation building and job creation in Nigeria'. F C Nwankwo, I C Ibeta, V N Nwaogbe. Journal 354 355 of Education and Practice 2013. 4 (16) p.
- [Carr ()] IT doesn't matter, N G Carr. 2003. Cambridge, MA: Harvard University Press. 356
- [Berraies and Chaher ()] 'Knowledge creation process and firms' innovation performance: mediating effect of 357 organizational learning'. S Berraies, M Chaher. International Journal Resource Studies 2014. 4 (1) p. . 358
- [Byukusenge et al. ()] 'Knowledge management and business performance: Mediating effect of innovation'. E 359 Byukusenge, J Munene, L Orobia. Journal of Business and Management Sciences 2016. 4 (4) p. . 360
- [Mmakgabo ()] 'Knowledge of entrepreneurial support and entrepreneurial intention in the rural provinces of 361 South Africa'. J M Mmakgabo . Development Southern Africa 2017. 34 (1) p. . 362
- [Andreea-Clara ()] 'Knowledge spillovers of FDI'. M Andreea-Clara . Procedia Economics and Finance 2015. 32 363 364 p. .
- [Peter et al. ()] 'Knowledge transfer to China: Policy lessons from foreign affiliates'. B J Peter, C Jeremy, T 365 Hui. International Journal of Technology Management & Sustainable Development 2016. 5 (3) p. . 366
- [Learning to realize education's promise. The world bank development report on international bank for reconstruction and develo 367 'Learning to realize education's promise. The world bank development report on international bank for 368 reconstruction and development'. World Bank Report 2018. 369
- [Sonmez ()] Multinational companies, knowledge and technology transfer, Contributions to management science, 370 A Sonmez . 2013. Switzerland: Springer International Publishing. 371
- [Keller and Yeaple ()] 'Multinational enterprises, international trade, and productivity growth: Firm-level 372 373 evidence from the United States'. W Keller, S R Yeaple. Review of Economics and Statistics 2009. 91 (4) p. . 374
- [National Bureau of Statistic report on gross domestic product ()] National Bureau of Statistic report on gross 375 domestic product, 2018. National Bureau of Statistics (Hand book 2018 edition) 376
- [Jacqueline and Joshua ()] 'New skills, new jobs: Return migration, skill transfer, and business formation in 377 Mexico'. M H Jacqueline, W Joshua. Social Problems 2016. 63 (3) p. . 378
- [Mark and Robin ()] Patent licensing, technology transfer and innovation. Stanford Law and Economics Olin 379
- working paper, A L Mark, F Robin . 2016. p. 484. 380
- [David and Xionggliang ()] 'Private sector incentives and the diffusion of agricultural technology from developing 381 countries'. J S David, M A Xionggliang. Journal of Development Studies 2015. 52 (5) p. . 382
- Report of the commission on investment, technology, and related financial issues, trade, and development board. 8th session Unit 383
- 'Report of the commission on investment, technology, and related financial issues, trade, and development 384 385 board. 8th session'. United Nations Conference on Trade and Development, (Geneva) 2014. United Nations
- Publication. 386
- [Adebayo et al. ()] 'Scaling up agricultural innovation for inclusive livelihood and productivity outcomes in sub-387 Saharan Africa: The case of Nigeria'. O Adebayo, K O Olagunju, A Ogundipe, K K Salman, P Francis. 388 African Development Review 2017. 29 (2) p. . 389
- [Owino et al. ()] 'Service quality in Kenyan universities: Dimensionality and contextual analysis'. E Owino, F 390 Kibera, J. Munyoki, G. & wainaina. European Journal of Business and Management 2014. 6 (11) p. . 391
- [Okoli and Binuomote ()] 'Skills training needed by business education student for successful entrepreneurship: 392 Implication for colleges of education in Nigeria'. B E Okoli, M O Binuomote . British Journal of Education 393 2015. 3 (4) p. . 394
- [Othman et al. ()] Technology transfer and development of firm's technological capability among vendors in 395 Malaysian automotive component industry: A case study approach, S N Othman, N Mohamad, B N Abu. 396 2017. (Conference paper) 397
- [Bilgin et al. ()] 'Technology transfer and enterprise performance: A firm-level analysis in China'. M H Bilgin, 398 C K M Lau, G Karabulut. Journal of Business Economics and Management 2012. 13 (3) p. . 399
- [Abu et al. ()] 'Technology transfer and entrepreneurial development in the value chain system of the Nigerian 400 oil and gas industry'. Z Abu, I Aun, O Oluwasanmi. Pacific Journal of Science and Technology 2018. 19 401 (1) p. . 402

- [Mappanyuki and Sari ()] 'The effect of sales growth ratio, inventory turnover ratio, growth opportunity to
 company's profitability (survey in indonesia's stocks exchange'. R Mappanyuki , M Sari . International
 Conference, (Seoul, South Korea) 2017. p. 64.
- [Murad and Thomson ()] 'The importance of technology diffusion in Malaysian manufacturing SMEs'. M A
 Murad , J D Thomson . 3rd International Conference on Information and Financial Engineering, 2011.
- ⁴⁰⁸ [Ezeani ()] 'The teacher and skills acquisition at business education curriculum at University level in Nigeria'. N
 ⁴⁰⁹ S Ezeani . International Journal of Ghana 2015. 3 (1) p. .
- [Transfer of technology and knowledge sharing for development: Science, technology and innovation issues for developing countrie
 'Transfer of technology and knowledge sharing for development: Science, technology and innovation issues for
- developing countries'. UNCTAD/DTL/STICT/2013/8 United Nations Conference on Trade and Development,
 (Geneva) 2018. United Nations Publication.
- 414 [Kathy ()] 'What could take the shine off Apple'. M K Kathy . Academic Search Premier 2017. 66 (5) p. .
- 415 [Kai ()] 'Why are foreign chemical companies growing more slowly in China?'. P Kai . Journal of Finance &
- 416 Business 2014. 1 (3) p. .