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## The Challenge of Nigeria Researcher in Meeting up with Sustainable Development Goal in 21<sup>st</sup> Century

O. S. I. Fayomi<sup>a, b\*</sup>, I.P. Okokpujie<sup>a</sup>, G.U. Fayom<sup>c</sup>, S.T Okolie<sup>b</sup>

<sup>a</sup>Department of Chemical, Metallurgical and Materials Engineering, Tshwane University of Technology, P.M.B. X680, Pretoria, South Africa.

<sup>b</sup>Department of Mechanical Engineering, Covenant University, P.M.B 1023, Ota, Ogun State, Nigeria

<sup>c</sup>Department of Geography, University of South Africa, Johannesburg, South Africa

Corresponding author email: [ojosundayfayomi3@gmail.com](mailto:ojosundayfayomi3@gmail.com); +2348036886783

### Abstract

A review on the challenges faced by Nigeria researchers, in other to meet up with the sustainable development goals has been carried out. The roles of researcher in the realization of the Sustainable Development Goals cannot be taking for granted. This paper has reviewed some aspects of the challenges faced by researcher in terms of policies making, funds, populations, inadequate research equipment and quality education. The outcome of this study shows that the greatest limitations affecting researchers from development and survival in Nigeria to meet up the sustainable development goals are lack of funding supports, poor organization, fraud, absence of training for gaining knowledge, poor infrastructure, poor technology and low request for product and services. When all this are put in place this will help the researchers to carry out effective research on how Nigeria can meet the demand for the SDGS.

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**Keywords:** Policies Making, Funds, Populations, Inadequate Research Equipment and Quality Education

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## 1 INTRODUCTION

The term "Sustainability" has twisted into a global trendy expression as potential answer for some universal, native, and nearby issues challenging society today. As creating countries straggly with issues of overpopulation, sickness, and political fight, developing nations need to manage issues, for instance, foundation breakdown, pollution and unlimited urban extension with controlled assets [1].

Research as a general term covers a wide range of concentrates intended to discover reactions to advantageous inquiries by methods for a deliberate and logical approach. Research capability and yield without a doubt fill in as main consideration of evaluating the maintainable improvement of the 17 advancement objectives and its practicality as a stronghold of scholarly information. As an educative development apparatus, inquire about in higher organizations is equipped towards the evolvment of hypotheses controlling the standards and practices of training. Subsequently, examine fills in as a noteworthy fixing in accomplishing of feasible advancement objectives [2].

Approximately twelve years back, the whole globe saw the beginning of another thousand years. While countries sorted as cutting edge social arrangements denoted the change from twentieth to 21st century with certifiable duty to positive improvement records, others, for the most part in sub-Saharan Africa, basically typified despicable wretchedness list; a state to a great extent characterized by deplorable disappointment of authority, poor administration framework, dishonest political tip top, lease looking for economy, asset revile discomfort, regulated defilement, wasteful open administration, expansive scale joblessness, ghastly physical foundation, deficient and rotted social offices, substantial outer obligation trouble, delicate government framework, slight legal, constricted law-making body, insensate official, battered outside picture, unavoidable neediness, maggot anticipation, monetary buccaneering, mind boggling and unwieldy equity organization, abnormal amounts of violations and revelry, additional legal killings, natural plunder, 'army' political gatherings, high maternal and new-born child mortality, over aggressive military, lethargic instructive framework, unnecessary police compel, damaged citizenry, and so on. The limitless rundown is symptomatic of a country, might be not fizzled or bombing, but rather clearly in interminable pain [3]. The verbal confrontation about the delicate fate of Nigeria is firmly identified with the disappointment of administration, provoking the 'sanctification' of Nigeria by areas of the worldwide group, media, social liberties associations and separatist's bunches as 'a fizzled state, maverick state, or prebendal state'. These gatherings guarantee that Nigeria spells disappointment on all fronts; political, financial, social and goods [4]. On the opposite side, and naturally thus, administrators of the Nigerian State expel these labels of disappointment as 'fantasy of the creative energies of 'fizzled, urgent and baffled legislators', 'ethnic chauvinists' 'religious narrow-minded people', 'dealers of viciousness', unpatriotic and displeased components', 'ongoing prophets of fate', 'unrepentant scaremongers' and other defamatory names. While these controversies and vituperations go ahead finished circumstances and end results of the emergency of the Nigerian state, one actuality stays incontestable; the coefficient files for improvement stay appalling. Truly, most, if not all the 'offensive wretchedness record' sketched out above are unmistakable as well as discernible in Nigeria. This is, most likely, why Ajiye [4] comments that 'the predominant financial, political, and ethno-religious emergency in Nigeria and their brutal articulations, all call to scrutinize the entire procedure of statecraft and culture of administration by progressive governments'.

However, this paper will carry out further review on the challenges of Nigeria researcher in meeting up with sustainable development goal in 21<sup>st</sup> century. This will help to facilitate the country to achieving the sustainable development goals.

## 2 CHALLENGES FACED BY NIGERIA RESEARCHER IN TERMS OF POLICIES MAKING, FUNDS, POPULATIONS, INADEQUATE RESEARCH EQUIPMENT AND QUALITY EDUCATION

### 2.1 CHALLENGES FACED BY NIGERIA RESEARCHER IN TERMS OF POLICIES MAKING

Worldwide exchange and capital streams add to long haul monetary development and improvement and give an establishment to accomplishing ecological and social objectives. Whenever exchange and speculation approaches and ecological and social strategies are commonly strong, the commitment of each to reasonable advancement is upgraded. OECD nations ought to strengthen this lucidness, both in their local courses of action and in universal transactions. To develop in a way that is ecologically and socially maintainable, creating nations require enhanced access to OECD markets and dynamic help from OECD nations for their ability building endeavors.

Fortify cognizance among exchange, speculation, ecological, and social strategies by:

- ❖ Reforming residential approaches that are both exchange mutilating and ecologically harming.
- ❖ Assessing the ecological and social effects of exchange and venture progression and of motivating force measures went for pulling in remote direct speculation and creating or refining appropriate philosophies to this end.
- ❖ Developing reasonable methodologies for guaranteeing that exchange and speculation disciplines and natural and social strategy instruments remain commonly strong.
- ❖ Encouraging the utilization of natural and social sets of accepted rules in the private part; giving a strong administrative and institutional structure for private division movement; and advancing mindfulness and successful execution of OECD instruments managing multinational endeavors, corporate administration, and pay off.

Bolster openings and capacities with respect to creating nations to develop in a way that strengthens natural insurance and social improvement by:

- ❖ Increasing market access for creating nations, particularly in areas where supportable improvement is probably going to profit most from financial progression.
- ❖ Reviewing monetary and natural strategies from the point of view of the objective of neediness lessening.
- ❖ Promoting usage of the universal improvement objectives reflected in the DAC Report "Molding the 21st Century: The Contribution of Development Co-task". In moving in the direction of these objectives, most OECD nations are guided by the generally acknowledged focus of 0.7% of GNP as a fitting goal for ODA levels.
- ❖ Continuing to enable the poorest nations to enhance their ability to partake in the practical advancement of the worldwide economy. This incorporates building up the arrangement and institutional systems expected to pull in private capital streams to those nations, while limiting unfriendly ecological or social effects related with such streams and giving fitting help to innovation co-task.
- ❖ Where improvement co-task assets are utilized to help the arrangement of worldwide open merchandise (for example environmental change), concentrating on those exercises that have clear neighborhood advantages, and which additionally create auxiliary advantages at the local and worldwide levels.

### **2.1.1 Challenges Faced by Nigeria Researcher in Terms of Policies Making in Responding to Climate Change**

Tending to environmental change is an especially critical test, requiring solid worldwide co-activity and initiative from OECD nations to act quickly to accomplish the moderation levels imagined under the Kyoto Protocol. OECD nations need to better adjust their residential approaches to environmental change targets. They likewise need to present market-based measures, for example, discharge exchanging frameworks, carbon assessments and appropriation changes, and to join these arrangements with centered projects for innovation advancement and dispersion (for example, low carbon emanations vitality sources). Lastly, they have to grow long haul relief strategies and to fortify their organizations with creating nations, keeping in mind the end goal to balance out fixations at levels that dodge risky impedance with the atmosphere framework.

Utilize a far-reaching way to deal with atmosphere moderation by:

- ❖ Extending relief to all wellsprings of ozone harming substances and carbon evacuation through sinks.
- ❖ Incorporating into atmosphere strategies both the auxiliary advantages of moderation arrangements, and the atmosphere advantages of different approaches (e.g. vitality effectiveness and enhancement).

- ❖ Reforming appropriations that expansion outflows or lessen take-up by sinks, particularly in transport, vitality and horticulture, and think about measures to ease change.
- ❖ Assessing and giving an account of the suggestions for discharges of ozone harming substances of help gave by Export Credit Agencies.
- ❖ Supporting exploration and innovation extends that expel boundaries to the take-up of more vitality proficient advancements and less carbon-concentrated vitality sources, and research on the social changes liable to emerge from approach changes.
- ❖ Developing predictable methodologies for observing and following outflows, to empower straightforward revealing, check and audit, and to improve consistence.
- ❖ Developing adjustment techniques to diminish presentation to dangers of environmental change and to encourage the progress to examples of living that are less defenseless against atmosphere impacts.
- ❖ Raising attention to environmental change, its effects, costs and the advantages of approach activities, through data and exchange with the groups and divisions most influenced, to encourage the progress to new types of work and utilization.

Create arrangements to manage alleviation over the long haul, for balancing out fixations at levels that keep away from risky impedance with the atmosphere framework by:

- ❖ Identifying and assessing discharge limits reliable with the destinations of the Framework Convention on Climate Change.
- ❖ Encouraging cooperation of creating nations in moderation approaches – a fundamental advance for decreasing environmental change over the more drawn out term.
- ❖ Using different types of budgetary and specialized help to help creating nations to upgrade their ability to actualize atmosphere alleviation and adjustment arrangements.

## 2.2 CHALLENGES FACED BY NIGERIA RESEARCHER IN TERMS OF FUNDS

When driving subjective research, the bleeding edge expert has a combination of options open with a particular ultimate objective to assemble data from individuals. But standard eye to eye interviews remain prominent, imaginative correspondence developments, for instance, inspectors have empowered new techniques for correspondence. While potential research masses have ended up being dynamically geologically scattered, mechanical types of progress and programming have made granting over extensive detachments more possible. Thusly, investigate is never again limited to eye to eye open individuals, as online procedures have urged access to overall research individuals [5].

The part of colleges in human capital advancement, examine and mechanical development can't be thought little of. Everywhere throughout the world interest in college instruction is a basic part of national advancement exertion. Countries today depend progressively on information, thoughts and abilities which are delivered in colleges (World Bank, 1998; OECD, 2001). As a country's learning industry, colleges increment the gainful limit of the work drive. Since industry and general society area request abnormal state labor the part of the college is to fulfill this request. Be that as it may, higher instructive organizations in Nigeria are stood up to with a few difficulties. Initially is the issue of financing.

The subsidizing of Nigerian colleges had deteriorated. The impacts had stayed smothering for college managers, which were prompted absence of responsibility, misuse of open assets, inefficient expenditure, debasement and removal of needs [6-8]. Contrasted with other creating nations in Africa through increment in instructive expenditure, Nigeria has kept up a little level of financial portion to training. The rate extent of real to planned use was just about 100% in Zimbabwe from 1990 to 1993 individually. This was trailed by Kenya having 90.1% in 1990 and increases to 94% in 1993 to 1995 respectively.

The previous politically-sanctioned racial segregation South Africa likewise expanded its genuine to spending use from just about 90% of every 1990 to 94% out of 1995. Nigeria in actuality performed nearly more awful than these different nations as well as its proportion of genuine to spending use on training really deteriorated from 85% in 1990 to 77% in 1993 to 1995 separately (UNESCO, record Yearbook, 1997). In alternative manner, World Bank (1999), demonstrated that the instructive expenditure in Botswana, ascended from 6.0% in 1980, and increases

10.4% in 1996; Ivory Coast from 7.2% in 1980 also increases to 7.7% of every 1990; Ghana from 3.1% to 3.3% from 1980 to 1995; Kenya from 6.0% to 7.1% from 1980 to 1995; and South Africa from 6.0% to 7.9% from 1980 to 1995. On account of Nigeria instructive expenditure nose-plunged from 6.0% to 1.2% from 1980 to 1985 and in this manner declined relentlessly to a grim 0.9% since 1995. Due to the above situation, the unexpected issue of the mind networks, modern strikes and decrease in registration for graduate examinations in the run is no longer a special case in Nigerian colleges today. Today the Nigerian college framework keeps on affliction from scholarly discharge made by the issue of mind deplete [9].

The ramifications of this improvement are that in view of migration of innovative know-how, the economy can't develop. Numerous great understudies who likely would have selected for graduate courses in the basic controls to advance the essential social ability in Nigeria have no educators to direct their investigations. Subsequently, the truly necessary scholarly limit with regards to the future can't be manufactured. Once more, this issue of declining accounts to the colleges is unavoidable everywhere throughout the African mainland. According to the ADB distributed give an account of African Development Indicators, the association infers that the accomplishments of African colleges are compelled by poor financing with regards to rising asset prerequisites and heightening swelling. This circumstance additionally clarifies some portion of the human investment departure from the landmass (African Development Bank (ADB), 1998). Second is the of instructor/understudy proportion. As per UNESCO record Yearbook (1997) and Federal Office of Statistics (1995), have the proportion of 1:8 for Kenya and Zimbabwe, while Ethiopia, (1:18), Nigeria, (1:19) and South Africa (1:28.5). Utilizing the above proportions as markers of fragment of the duties of college instructors for the five African nations, it ends up clear that the normal college teacher in Ethiopia, Nigeria and South Africa worries about substantially heavier concern than his partner in Kenya or Zimbabwe. For instance, of Nigeria may even be more regrettable on account of the requirements under which the scholarly staff in this nation is compelled to work [10]. Thus, several authors presume that the nature of graduates is poor to the point that their effect on the nationwide economy as far as profitability is for the most part beneath the compulsory standard for a creating economy. Because of absence of competent scholarly staff, the registration for graduate examinations has likewise deteriorated.

A few teachers really lecture at least two courses or more than that in a semester. Far more detestable, numerous speakers instruct for a long time with sub-doctorate degrees. The Nigerians colleges can never again draw in youthful brilliant personalities. The rein of veteran's well-past retirement-age instructors tying down the framework. Third, the effect of the monetary change program on the colleges has been extremely grave. The human investment that is lost from the colleges has been connected in different segments of the budget [10]. The teachers who left the colleges have received various procedures to adjust to the effect of the change. As a gathering of experts, with their exchange association the Academic Staff of Union of Universities (ASUU), communicated sentiments of distance and hardship. They have regularly set out on modern strikes which have influenced the lives of their understudies. These strikes have been over issues of pay rates, incidental advantages, work fulfillment and self-completion. The Nigerian college framework today is ugly to any youthful and eager gentleman and lady in respect to their partners in other West African states.

The consequences of the examination uncover that the most well-known imperatives impeding scientists from development and survival in Nigeria are absence of money related help, poor administration, defilement, absence of preparing and experience, poor foundation, inadequate benefits, and low interest for item and administrations [11].

### **2.3 CHALLENGES FACED BY NIGERIA RESEARCHER IN TERMS OF POPULATIONS**

In general, globalization has given chances to rising economies and creating nations, and lately their development rates have been reliably higher than development rates in the created world. There are two basic admonitions regarding this expansive pattern of joining, notwithstanding. It has not made creating nations resistant to repeating stuns: in reality, globalization has expanded nations' vulnerabilities; and it is a long way from uniform, with some creating nations rejected from this meeting procedure as well as falling further behind. Normal per capita development likewise stows away expanding disparities inside nations, which are additionally somewhat identified with globalization. A critical piece of the worldwide populace thusly does not profit by union [12].

Meanwhile in 1990s, per capita salaries in rising economies have become reliably quicker than in the created world. Since the turn of the thousand years, development in creating nations has quickened too, driving a general pattern of meeting in the worldwide economy as appeared in Figure 1. Merging is incompletely determined by globalization, which has encouraged access to innovation and know-how through more tightly exchange and venture connections and in this way higher efficiency development in assembling. Actually, fabricating divisions have encountered an unrestricted union in labor profitability, in other words, a union autonomous of topography or arrangements [13]. Since this does not hold for different parts of the economy, auxiliary change—a diminishing dependence on the essential area and a move of assets to higher esteem including assembling and present-day administrations exercises—will remain an important state of managed monetary development.

Because of quick development in creating and rising economies, the global economy is wind-up more multipolar, which unavoidably prompts the production. The progressions should be obliged inside a worldwide. Extending globalization has encouraged development in creating and rising economies, however has additionally made national economies more defenseless against outside stuns

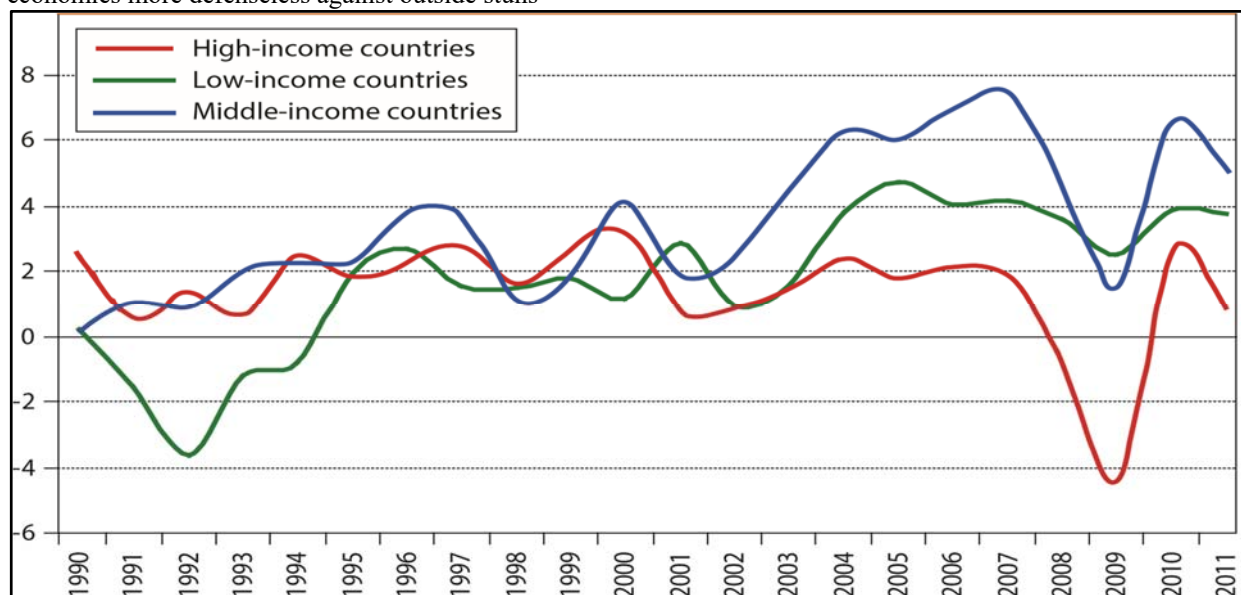


Figure 1: Annual development of GDP per capita, high-, low-and center salary nations, 1990-2011 administration. [14]

The extension of worldwide exchange related with the discontinuity of creation likewise adds to worldwide carbon dioxide (CO2) outflows, with the vehicle area a noteworthy wellspring of those discharges. By and large, globally exchanged products create discharges that are 50 for every penny higher than those created by privately exchanged merchandise [14]. Relatedly, the huge extension of worldwide utilization and of changing utilization designs in rising economies will add to the solid ecological manageability challenge driven initially by unsustainable utilization designs in created nations (see promote underneath). Financially, preceded with development in rising economies specifically can be a motor of development for the world economy and gives chances to other creating nations, yet the gravity moves to China and India, the significant drivers of this procedure, will likewise change the idea of end showcases and is probably going to posture new difficulties for monetary improvement.

The overall masses accomplished 7 billion out of 2011, this development continue, however at the decreasing rate, to accomplish a foreseen 9 billion in 2050 [15]. Past total of people advancement, measurement change is depicted by heterogeneity, as nations are at different periods of their measurement advance. While overall masses improvement is directing, it is still high in some making countries, and remembering that the aggregate people when all is said in done is developing rapidly, a couple of countries are seeing an extension in the degree of youth in their general people. Such better than average assortment, joined with energetic incongruities, along these lines makes momentary weights both inside countries and all around. These measurement designs act genuine tests for future

progression plans at all levels: close-by change will be framed by advance development, national change philosophies should conform to creating measurement structures, and short-lived weights ought to be tended to at the overall level.

People components are determined by lavishness rates and passing rates—changes in which are as often as possible depicted as together constituting the measurement advance—and development plans. Bona fide cases in made countries propose a measurement change from a hidden state of high lavishness and high death to a state of low productivity and low death, where mortality usually rots originally took after at a advanced stage by sudden lessening in readiness. At the universal level, fruitfulness rates have for quite some time been tumbling from their peak and the universal richness rate at present stands at 2.52 youngsters for every lady. It is relied upon to fall further, to 2.17 youngsters for each lady, in 2045-2050. Nonetheless, these midpoints veil incredible heterogeneity between nations. Ripeness is beneath substitution level in nations that record for half of the worldwide populace, in particular, most created nations, yet in addition China. It has fallen quickly in numerous creating nations too, while it stays at any rate created nations, and is anticipated to remain altogether above substitution level in coming decades (in the same place.). The strengthening of ladies, better access to conception prevention and the delay of marriage are quick drivers of richness decreases; however, fruitfulness rates are likewise subject to financial advancement, mortality decays and changes in instruction levels. Attributable to changes in sustenance and general wellbeing and social improvement all the more extensively, mortality is declining all through the world. Future during childbirth is at present at 67.9 years and is relied upon to increment to 75.6 years by 2045-2050, in view of increments in all districts and advancement gatherings. Despite the fact that mortality patterns have been more uniform, there is local decent variety regardless, with the effect of HIV/AIDS on future in sub-Saharan Africa especially obvious.

Relocation is the third driver of populace flow. Net movement from less created to more created areas has been expanding relentlessly from 1960 ahead. In the vicinity of 2000 and 2010, created districts pulled in 3.4 million transients yearly by and large. While these streams rule worldwide movement designs, relocation between creating nations is additionally noteworthy, and a few of them have pulled in vagrants in substantial numbers, for instance, as visitor laborers (in the Middle East) and as outcasts (in Africa). Viewing forward, movement designs are harder to foresee, as they are impacted by a perplexing transaction of monetary, social, statistic, natural and political elements; however general relocation from less to more created districts is anticipated to proceed, but at a leisurelier pace, in the times ahead [15].

These statistic drivers prompt four noteworthy worldwide populace drifts: the total populace will keep on growing; it will develop at a much slower pace than already; it will end up more established; and it will be progressively urban [16]. These worldwide patterns cover substantial fundamental heterogeneity amongst nations, and they posture essential difficulties to reasonable advancement, both all around and in particular locales and nations. With respect to populace development, it achieved its crest in the vicinity of 1965 and 1970, and has decelerated from that point forward. This pattern will proceed, and by 2050 populace in created nations is required to nearly stagnate, and populace development in creating nations other than minimum created nations will be 0.50 for each penny every year, while the number of inhabitants at all created nations will develop at the rate of 1.42 for every penny yearly, altogether beneath the present rate, yet at the same time sufficiently high to empower populaces to twofold like clockwork as seen likewise in Figure 2.

This decent variety infers that future increments in total populace will be exceedingly thought geologically. Just eight nations—the Democratic Republic of the Congo, Ethiopia, India, Nigeria, Pakistan, the Philippines, the United Republic of Tanzania, and the United States—will represent half of the anticipated worldwide populace increment. More troubling is the way that fast populace development proceeds in nations that are the slightest all around prepared to furnish the vital ventures to manage bigger populaces. Populaces are relied upon to dramatically increase at all created nations amongst now and 2050, and shy of real improvement advance in these nations, this is probably going to challenge their economic advancement prospects in various ways. An endless loop of neediness, absence of training, sick wellbeing, high ripeness and high baby mortality can sustain disparities. Breaking it will require advance interests in wellbeing and training frameworks, and in addition better access to regenerative wellbeing administrations and the assurance of ladies' conceptive rights. In the meantime, these speculations must be supplemented by extending gainful work openings, as a developing number of youngsters enter work markets. Last,

populace development, specifically in mix with environmental change, can add to nearby natural anxieties and asset and land shortage.

Inferable from the decrease in fruitfulness and death rates, the worldwide populace will likewise wind up more seasoned at a quickening pace [17]. The presents of matured people of 60 years and over will increment to 22% for every naira in 2050, which is on the increase side when compared with 2011 which is 11.2% and in 1950, it was 8%. In any case, nations are altogether in different stages in their statistic change. Populace maturing is most progressive in developing nations, prompting sharp increments in reliance proportions and putting a strain on those nations' wellbeing and annuity frameworks. Developing nations are made up of more young peoples, yet their populaces are becoming more established also. Fundamentally, the maturing procedure is anticipated to happen at a substantially higher speed, while family structures experience real changes and family emotionally supportive networks subsequently assume a littler part. In the event that essential annuity frameworks are inadequate with regards to a developing offer of more seasoned people will along these lines be in danger of falling into poverty.

Then again, due to their constantly high maturity rates, the minimum producing nations will keep on seeing the quantity of youth and young people rising. A developing offer of youngsters presents open doors for harvesting a statistic profit, if a statistic change happens and fruitfulness rates and reliance proportions fall, which, now, is anticipated to occur in slightest created nations in Asia [19]. Be that as it may, this profit will pay out just if those economies can make work openings, which will be a noteworthy test for slightest created nations in the decades ahead. Such aberrations in universal populace progression, in blend with existing wage incongruities, are additionally adding to proceeded with transitory weights at the worldwide level. On the off chance that tended to in an intelligible way, relocation can be helpful for the two nations of inception and nations of goal, by mitigating—in spite of the fact that in no way, shape or form disposing of—issues emerging from statistic patterns, and adding to populace maturing will prompt sharp increments in reliance proportions, while worldwide aberrations in populace elements and steady wage inconsistencies will increment transitory weights at the worldwide level

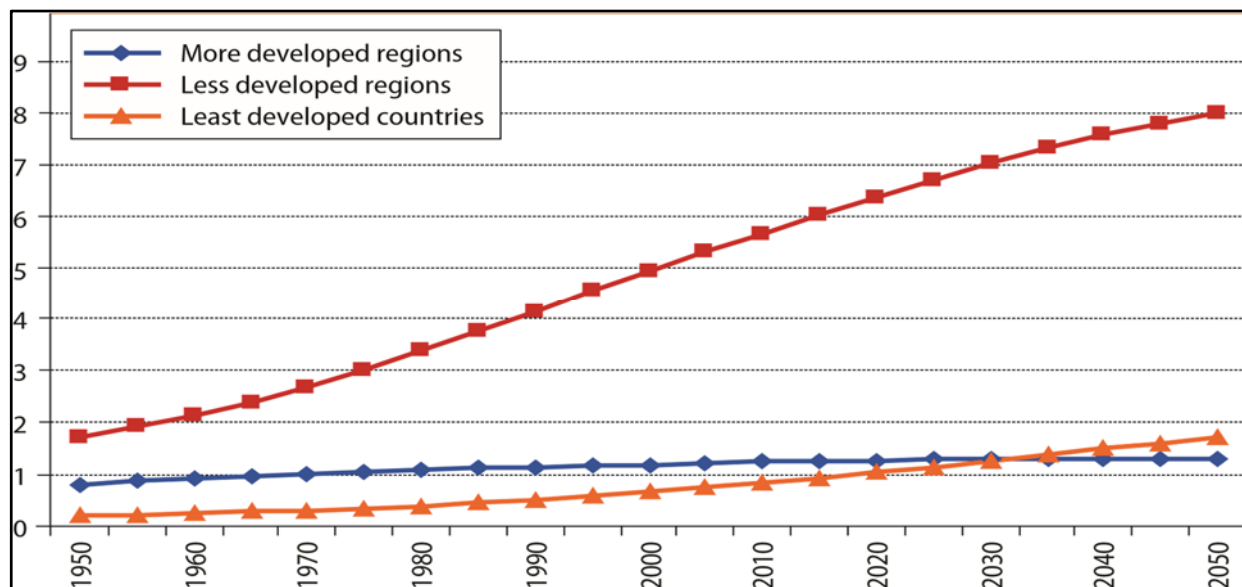


Figure 2: Projected populace by improvement district, medium variation, 1950-2050. [14]

The exchanges of knowledge and assets as no satisfactory components at the worldwide level for tending to the worries of today world. The fourth real pattern is expanding development. Effectively, the greater part of the total populace lives in cities and urban areas, the most forthcoming populace development will happen in the inner-city regions of creating nations. At all created nations, the rate of development in urban regions is 4 for every penny for each year, for the most part determined by rustic urban relocation looking for business [15]. A significant number of these vagrants live in casual settlements and urban ghettos where they are presented to ecological dangers and



expanded wellbeing dangers. Environmental change can additionally build these dangers; the same number of urban communities is in areas especially presented to its belongings [18]. Then again, urbanization offers chances to give good access to administrations work and bring down cost with lower natural effect. While developing the framework that will enable chances to be acknowledged, involves tremendous venture and arranging needs, the truth of proceeded with populace development will render such an endeavor basic to any feasible advancement technique.

With a present populace surpassing 170 million, the Federal Republic of Nigeria is the seventh-biggest nation on the planet and the most crowded in Africa. Regardless of the presentation of approaches and projects throughout the most recent 30 years to address Nigeria's fast populace development and the difficulties it postures for advancement; the nation is anticipated to wind up the third-biggest country on the planet by midcentury [19]. These proceeding with statistic patterns—combined with rising national needs and new global improvement systems—made the need to evaluate the usage of Nigeria's 2004 Policy on Population for Sustainable Development (consequently NPP, or the strategy). Results from the appraisal are expected to direct the detailing of an amended arrangement and the methodologies expected to understand its objectives and targets. Accordingly, there are requirements for the Nigeria analysts to build up a few strategies or scientific model on the most proficient method to talker the rate at which the populaces of Nigeria increment.

#### **2.4 CHALLENGES FACED BY NIGERIA RESEARCHER IN TERMS OF INADEQUATE RESEARCH EQUIPMENT AND QUALITY EDUCATION**

Human activities constitute the greatest threats to human survival today in the world. Though these activities vary along socio-cultural line, the greatest problem seems to be the threat to the natural resources. While fossil fuels and greenhouse gas emissions may constitute the greatest challenge to the industrial nations, the sub-Saharan African countries face the problem of deforestation (felling of logs) and environmental hazard caused by the activities of the individuals. There is also the problem of CO<sub>2</sub> (acid rain) whose effects are felt everywhere since it is climate-related [20]. Developing countries are more prone to CO<sub>2</sub> since they lack the means to prevent its effects on the region. The felling of logs is an avoidable act if the people have had access to a climate-friendly source of energy; poverty does not allow the people to seek an alternative source of energy. No doubt poverty contributes more to how the people cause harm to the environment.

The United Nations set the Millennium Development Goals to tackle the problems of poverty, hunger etc. especially in the developing countries. It was assumed that by 2015 most countries in the developing world would have minimized the effects of famine, drought, poverty, hunger, HIV/AIDS and others in their environments. Most of these countries managed to achieve marginal results in reducing the effects of famine, drought, poverty, hunger, and HIV/AIDS; the need to consolidate on these marginal results must have informed the creation of sustainable development goals with 17 items and a focus on the eradication of poverty and hunger by 2030. Because of the importance of achieving the goals, the United Nations decided to declare a Decade for Education for Sustainable Development (DESD). Its main focus is to inculcate in individuals such a critical reflection on actions which impact negatively on the earth's resources. According to UNESCO [21] ESD “is a vision of education that seeks to balance human and economic well-being with cultural traditions and respect for the earth's natural resources.” What is at stake is how to achieve human well-being without depleting the source of such well-being.

In a paper by American Association of College of Teacher Education (AACTE) [22] entitled: set 21<sup>st</sup> Century Information and in Educator Training, the authors argue that most assessment of students in the developing world are designed to measure students' capability to recall distinct facts using multiple-choice examinations rather than to measure a student's capability to engage in and comprehensive complex intellectual and problems resolving tasks. Markovic [23] too confesses that in traditional education students are passive participants on all the education levels. Further to say that the knowledge students learnt in the course of their education process has regularly turned out not to be truly applicable or rather inadequate to meet the current requirements of critical education. Still in traditional education, especially in Nigerian school system, some elements of African culture are noticeable. Marinho [24] says “students expected to speak only when spoken to, and student's participation in dialogue, discussion, debate or reflection is discouraged.” It is simply a product of cultural conflict; young people are hardly allowed to engage elders in debates as this would be regarded as disrespectful in every respect. For instance, culture does not permit a young person to correct an elder when the elder does something wrong, e.g. felling of logs in the wood. Because

ignorance and superstition pervade the local communities, it may be necessary to make such a correction for the purpose of sustainability, but indeed, African culture sometimes frowns at it. The only condition the young person can make the correction is for him/her to act with reasonable caution in his/her choice of words.

As reported by American Association of College of Teacher Education (AACTE) [22] some of the competencies students required are being able to “adapt to change, be flexible, manage goals and time, work independently, be self-directed, work effectively in diver’s teams, manage projects and produce results, guide and lead others and be responsible to others”. Ananiadou and Magdalena [25], therefore, stress that the 21 century skills and competencies are “those skills and competencies young people will be required to have in order to be effective workers and citizens in the knowledge society”. Besides, students should be able to think critically and make good decisions on their own lifestyles, values, and behaviour for sustainable reason.

The problem of poor access to quality education by Nigerian children may stall their ambition to achieve meaningful lifestyles and well-being [20], [26]. The problem also spilled into how the country prepares to meet the SDGs. Thus, poor access to quality education is likely to prevent the country from participating in the current global drive to achieve the sustainable development goals. This is one of the problems the country is facing today. Verspoor [27] uses Cameroon, Kenya and Niger to illustrate his point while explaining the problem of poor access to education in Africa. According to him, no children from the poorest income quintile, in these countries, are enrolled in tertiary institutions, yet Berthelem (as cited in Verspoor, [27]) believes that crossing the human capital threshold and moving to higher levels of economic performance will require 'ambitious investment in education'. Berthelem's study seems to suggest that countries in Africa affected by poor budgetary allocation to education risk further deprivation in human capital development [28].

The issue of quality education in sustainable development program entails providing adequate learning experience for the young people [29]. UNESCO [21] declared in chapter 36 of Agenda 21 four goals of education to be provided.

- ❖ To advance and enhance the nature of instruction to refocus long lasting training on information, abilities and qualities which the nationals need to enhance the nature of their life.
- ❖ To reorient the current training programs from essential to college to fill in as a vehicle of learning, thought examples and qualities expected to assemble a reasonable world.
- ❖ To rise open mindfulness and comprehension of the idea of manageable improvement to create illuminate, dynamic and dependable citizenship locally, broadly and globally.
- ❖ To train the work force - current technical and vocational education involving directors and workers – to enable them to adopt sustainable methods of manufacture and Consumption

In order to promote the four goals, Nigeria may have to adopt a policy reform option. The basic policy reform option may be to make teacher education rigorous enough to emphasize adequate knowledge of the content area and mastery of teaching methods. The emphasis should be to prepare students adequately for the contemporary challenges in the global community, and to make the teaching of fundamental skills and competencies teacher's teaching/learning paradigm [30-42].

Hypothetical ideas of systems in training as per systems constitute another social morphology in the public arena, where overwhelming capacities and procedures are progressively composed around systems. These systems are upgraded through new data innovations that give the material premise to their development all through the whole social structure. Castells [30] conceptualizes the idea of 'arrange' as an exceedingly powerful, open framework comprising of hubs and streams.

### 3. CONCLUSION

This paper as successfully reviewed the effects of researchers in achieving the sustainable development goals and the challenges researchers faced in other to meet up this SDGS demand. From this review it is more clearing that developing country cannot meet up this sustainable development goals without the researchers, so the government

need to acknowledge the worthy and the role of the researchers in Nigeria and their challenges faced, from this study, the conclusion drawn and the recommendation are as follows

- ❖ The government need to make good policy that will aimed the training of researchers to developed good and quality research skills
- ❖ Provide good equipment and technology for researchers to use in carrying out their research duties
- ❖ Provide all necessary funding for research in this country to be successful.

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