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1 2	Road Transport Policy Reforms in Nigeria: A Case of Underdeveloped Infrastructure
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#### 7 Abstract

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The study investigated the extent of road transport reform implementation in Nigeria with 8 intention to assess the extent of road network infrastructural development in Nigeria. The 9 study made use of both primary and secondary data. The population for the study consisted 10 of 2683 civil servants. Primary data were obtained through the administration of a set of 11 questionnaires, structure interviews, and observation to elicit information from the 12 respondents. A multi-stage sampling technique was adopted. Three zones and two strategic 13 state capitals were purposively chosen from each zone, thus: from the North-Central zone 14 (Ilorin and Lokoja), south-west zone (Akure and Ibadan), and south-south zone (Asaba and 15 Benin). For the Senior Civil Servants, a set of questionnaires was administered using a 16 proportional random sampling technique. In this case, 268 copies, representing 10 17

19 Index terms— reform, infrastructure, road, implementation.

#### <sup>20</sup> 1 I. Introduction

he role played by transportation cannot be overemphasized in the growth and development of any nation. This 21 is because the primary function of transportation is to move passengers and goods from one place to another for 22 higher value or utility. The modern transport system in Nigeria started during the colonial period in which the 23 24 networks of rail, water, and road development were established for the exportation of cash crops such as cocoa, 25 cotton, etc. as well as the importation of cheap, mass-produced consumer goods. The old transport systems were planned in the most economical way possible, as shown with the construction of sub-standard and sub-base rail 26 27 and road alignments, which later proved inadequate to accommodate heavy vehicles. In the post-colonial era, 28 the re-orientation of goals in the transport sector became imperative as transportation served as an instrument of unification of the country and a tool for social and economic development. 29

The positive impact on the nation's social and economic growth by the development of petroleum resources 30 pushed up the demand for the transport system. The imbalance identified between the needs of Nigerians and the 31 economy for adequate transport facilities and the ability of the transport sector to meet such demands informed 32 the introduction of National Transport Policy. Friedrich (1975) defined public policy as the proposed course 33 of action of the government or one of its divisions. While public policy was defined by ??aston (1979) as the 34 35 authoritative allocation of values to the whole society. But policy formulation is an instrument that is being 36 used both by public and private organizations to address existing problems or imbalances and safeguard the re-37 occurrence of such in the nearest future through articulated goals and objectives as contained therein. Although the National Transport Policy draft document initiated in 1965, its adoption took effect in 1993, and was tagged 38 "moving out of the crisis" as the first National Transport Policy concentrated majorly on modal development 39 as a thrust. The realization of the fact that the aspiration contained in this document seemed inadequate 40 to transform the dynamics and ever-changing transport sector environment nationally led to the 2003, 2008, 41 and 2010 reforms which paid attention to integrated intermodal development, deregulation, privatization, and 42 publicprivate partnership respectively. 43

#### 2 A) STATEMENT OF THE PROBLEM

The 2010 National Transport reform aimed at institutionalizing the transport system through the creation of 44 central coordinating centers to administer its affairs. Despite the various policy document reforms, the transport 45 sector and road transport mode witnessed deterioration in facilities. Nine years after, the achievement was 46 47 minimal in the transport sector in general and road sub-sector in particular. The lofty general policy goals and 48 objectives for the transport sector and in particular the road transportation seem unattainable. As many of the Federal highways and bridges in Nigeria, including Oyo-Ilorin, Lagos-Ibadan, Jebba-Mokwa, Ife-Ibadan, and 49 Benin-Onitsha among other expressways, are characterized with large potholes and failed portions which slow 50 down movements and expose users to frequent accidents with the attendant loss of lives and properties. 51

Nigeria major road transport infrastructure as at year 2010, consisted of 34,123 km of Federal roads including 52 seven bridges across the Benue and Niger Rivers, the Lagos ring road, the Third Mainland Axial Bridge; 30,500 53 km of state; and 130,000 km of local roads (Buhari, 2000; ??GN, 2010). But in December 2002, the Central Bank 54 of Nigeria (CBN) conducted a nation-wide survey on the state of highways in the country which estimated the 55 road network in the country to be 194,000 kilometers. It also revealed that most of the roads, especially those 56 in the North-Western and South-Eastern parts of the country, were in bad condition. The trend is generally 57 similar to the other part of the country. The majority of the roads constructed over three decades had not been 58 59 rehabilitated even once, resulting in cracks, depressions, dilapidated bridges, and numerous potholes that make 60 road transport slow and unsafe ??CBN, 2002).

61 The Federal Republic of Nigeria's Constitution (1999) accordingly shared the responsibility of maintaining, 62 planning, and developing the nation's transport infrastructure among the three tiers of Government. To this end, the Federal Government, through Federal Road Maintenance Agency (FERMA), Federal Ministry of Works and 63 Federal Ministry of Transport, is responsible for the infrastructural development of national highways that make 64 up only 17% of the existing road network in Nigeria; intra-state roads are the responsibility of State Governments; 65 while the Local Governments are required to cater for intraurban and rural feeder roads, which constituted over 66 60% of the existing road network. Other stakeholders in road network administration are the Federal Road Safety 67 Commission (FRSC), Nigeria Police Force, and Vehicle Inspection Officer (VIO), while National Union of Road 68 Transport Workers (NURTW) and Road Transport Employer Association of Nigeria (RTEAN) are the endusers. 69 The Nigeria road network as estimated at 108,000km as paved is the largest in West Africa and the second 70 largest south of the Sahara in 1990. Nigeria today has a dense network of urban centers unequaled anywhere in 71 Africa (Ramirez-Djumena, 2014) with fastgrowing population of 140 million (National Population Commission, 72 73 2006) but World Population Reference Bureau (2012) put it at 170.1 million, which surpasses the existing road 74 network. Despite the lopsided constitutional arrangement, the impact of the three tiers of government and, in particular, the Federal Government, remained minimal as the condition of Nigerian roads has become deplorable, 75 notwithstanding the reform put in place. 76

Apart from faulty design, lack of drainages and very thin coatings that are easily washed away by heavy rainfall, the underdeveloped nature of waterways and moribund railways system which has served as alternative means of transportation has increased the pressure on the roads which eventually congest the road network with heavy trailers, oil tankers and heavy vehicles and consequently damages with resultant effect of frequent road accidents arising from potholes and road failures. These seem to be the result of bad planning and poor maintenance culture emanating from weak policy formulation and implementation of road transport reform.

This situation aptly informed why attention focussed on policy reform implementation of the transport sector and road transportation in particular as it affects Federal highways in Nigeria. Therefore, this study aims at addressing the status of federal roads and the extent to which the policy reform implementation has impacted road infrastructural ability to cope with everincreasing social, political, and economic development in Nigeria.

#### <sup>87</sup> 2 a) Statement of the Problem

Transport Systems provide mobility, timely accessibility, and facilitate the efficiency and productivity of the 88 other sectors of the economy. Similarly, population growth, increased economic activity, and growing incomes 89 combined to generate a higher demand for transportation service, which has some negative implications for 90 development. The Federal Government of Nigeria (FGN) to introduce the National Transport Policy (NTP) in 91 1993, aimed at achieving sustainability in the transportation system. However, observing that the policy reform 92 has little influence on transportation development, especially as the railways' system has partially collapsed with 93 resultant increased pressure on roads. Different studies by scholars have been conducted on the level of transport 94 development in Nigeria which include those from Buhari, (2000); Sumaila, (2013); Agbonkhese, Yisa, Agbonkhese, 95 Akanbi; Aka & Mondigha, (2013); and Igwe, Oyelola, Ajiboshin & Raheem; (2013) among others whose studies 96 97 focused on reviewing the national transport policy. Consequently, the road networks are overstretched congested 98 with the roads characterized by deep potholes and failed portions, which impede movement and thus results 99 in increased road traffic crashes. Despite putting in place of 1993 National Transport Policy and subsequent 100 reforms, the road transport infrastructure seemed inadequate, and the yearly budgetary allocation seems not to impact favorably on the quality of the existing road network with adverse consequences on economic activities 101 that have promoted poverty. 102

The above scenario informed the need to evaluate the National Transport Policy (NTP) to determine the extent to which the reform has achieved its stipulated objectives, and in particular, the effectiveness of road transports reform implementation activities at the execution stage on infrastructural development in Nigeria. Also, there is need to investigate the cause of the persistent deplorable state of road transportation and the extent of road transport reform implementation for economic sustainability. Hence, this study.

### <sup>108</sup> **3 b)** Research Question

The study attempted to provide answers to this question i. To what extent are the guidelines in the transportation system in Nigeria been implemented?

## 111 4 c) Objectives of the Study

The study aims broadly to assessing the implementation of road transport reform in Nigeria, while its specific goal is to i. Investigate the extent of road transport reform implementation in Nigeria;

### <sup>114</sup> 5 d) Scope of the Study

The study covered policy formulation and implementation in the road transport system of the Federal Government of Nigeria and the agencies with the responsibility of the transformation, expansion, and maintenance of the physical infrastructures in the road transportation sector between 1993 and 2016. Specifically, the study covered the Federal Road Maintenance Agency, Federal Ministry of Works, and Federal Ministry of Transport that was statutorily responsible for policy formulation, implementation, maintenance, design, and construction of federal highways. The study also focused on roads from three geo-political zones, namely South West, South-South, and North Central.

# 122 6 II. Conceptual Review a) Roads and Concept of Road Trans-

#### 123 port

Roads came into being as soon as well-defined paths emerge for easy passage of people and goods between farmland and settlements. It was brought about by the advent of the wheeled vehicle, which invariably prompted road improvement, which informed the need to construct roads so that the use of the motor vehicle could extend into less accessible communities and areas in developing countries. ??oyle (1973) posited that in the least developed and most remote inhabited parts of the world, transportation constituted part of the daily rhythm of life. Also, as part of human activity includes the painless passage of services, goods, and people from one community to the other.

Broadly, transportation terrain involves complicated interrelationships that are in place between the physical 131 environment, models of political and social activity, and economic development status. According to Nutley 132 (1998), transportation aims at providing accessibility or the ability to undertake a trip for a particular reason. 133 134 But the transport requirement is usually derived, and the economy remained the main transport motivation (White & Senior, 1983). Transportation is assumed to occupy a core position in the global, regional, and local, 135 economies aimed at world transformation. It does not only interact with the environs but also with the spatial 136 distribution and development with varying types of social and economic activities (Hoyle & Knowles, 1998). 137 Hawkins (1962), White & Senior (1983) posit that transport as an human activity not only involves easy passage 138 in space but as well as in time dimension. Concerning space dimension, functional transport reforms ensure the 139 movement of cheap goods from the manufacturing point to the consumer's area, thus creating and widening the 140 markets and economic growth. However, within time frame stocks, work in progress, and finished goods can be 141 quickly turned over to serve markets and big economies (Hawkins, 1962). With the advent of new faster transport 142 modes which have changed space and time dimension of traveling by bridging the distance connections between 143 states, nations, regions, and continental boundaries than those that exist within the towns in the same country 144 in terms of physical distance (Simon, 1996). As a consequence, not only has the geographies of production, 145 distribution, and consumption been affected, but the different world delineation in various degrees of integration 146 with technologies that has changed dramatically. 147

Road transportation, unlike other modes, has improved the majority of the world's population mobility and accessibility tremendously (Hoyle & Smith, 1998). In the area of road transportation reform, three main parts have been identified to include operations, vehicles, and infrastructure, which is also applicable to other modes of transportation. The wheeled conveyance as a means of transportation move on the road connectivity while the operations deal with the management and control of the system to ensure safety. The main infrastructure features include roads, bridges, nodes, and proper linkages (Dickenson; Gould; Clarke; Mather; Prothero; Siddle; Smith; & Thomas-Thorpe, 1996).

Road infrastructure described as a set of roads arranged in the form of a network linking the inhabited parts utilized by man. As the population of an area increases, the intensity of human activities becomes significant, and the road network is more congested. A road is a dedicated passage of land which has been smoothed, paved, and prepared to free movement from one destination to the other. Roads are classified and arranged based on the importance, attributes, and the function it is expected to perform or on the ownership. Accordingly, it differs in width, construction and quality of paving material, maximum allowed slope, and minimum curvature radius. There are different

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# <sup>163</sup> 8 (H) categorizations based on functions and available features <sup>164</sup> into four different levels thus:

Trunk roads are usually a collective grouping of National, International, and primary highways while minor and 165 tertiary roads grouped as local or community roads that remain unpaved but provide access to goods and services. 166 New roads are built to enhance road transport between two places to achieve economic benefit and social 167 development that are associated with its building. New constructions are put in place not only to relieve the 168 existing pressure of traffic congestion but to make new settlements accessible by connecting them to the road 169 network and promoting commerce and other functions in the area. However, Simon (1996) posits that new 170 171 road construction does not necessarily guarantee development in the area as he affirms that there is an indirect 172 relationship in between and infrastructural upgrade.

As conceived by Tolly & Turton (1995), transport policy is not only viewed as the process of regulating and 173 controlling the provisions of transportation but also to efficiently facilitate the economic, social, and political 174 life of any country at the minimum social cost. As a framework for transport control and regulation, transport 175 policy provides the government with a rule-setting function that ensures efficiency, safety, costeffectiveness, and a 176 conducive transport system. Conceptually, policy reform can be considered to be a form of aspiration, guidelines, 177 ideas, goals, and visions for a better society. Equally, Hodgson (2012) argued that transport policy is specifically 178 designed to proffer solutions and focus on the social issue of movement from the human angle as against viewing 179 mobility as just a feature of the society. 180

However, transport policy deals with mobility as a central feature of the new world. Accordingly, to enhance 181 globalization, the objective of transport policy is not aimed at changing mobility itself but rather its pattern. 182 Hodgson (2012) concluded that the political goals complexities in transport policy inform why the issue of policy 183 design became unique for policy researchers. Thus, Oyesiku (2004) concurred that transport policy not only 184 serves as the bedrock for the strategy and direction of development of the transport system, but it enucleates 185 the degree to which the planning and provision of transport offer suitable solutions. Oyesiku affirmed that the 186 adopted strategies in transport provision together with the efficiency of the transport system are indirectly related 187 to the nature and dynamism of the country transport policy. The consequence of societal values, transport policy, 188 and reform process outlines and responds to the type of transport needs of the society in the way and manner it 189 wants it developed. As a consequence, Sumaila (2008) posits that transport policy reform has many composite 190 implications with its goals interdependent. 191

Within and across countries, Mercado, Paez, Scott, Newbold, & Kanaroglou (2007) have advanced an analytical framework to assess transport policies that direct on three indices which include consequence, context, and content. Arguing that the analysis and enumeration of policy objectives and values are useful in understanding why a particular transport approach embraced at the expense of others and which better explain the variations that occur across countries. Hence, from the perspective of a policy reform analyst, there is a need to consciously situate existing or proposed policies within the context of the country's policy problem.

According to Mercado et al. (2007), interpretation of transport policies based on the context in which it was 198 formulated, bearing in mind the organizational arrangement and policy motivation derivable from the nation's 199 political and socio-economic situations. The institutional analysis assesses the country's governmental structure 200 and how the established relationship of sub-national will key into the policy formulation and implementation 201 process. But the end-goals are the analytical product derivable from policy motivation of the country transport 202 framework. Policy approaches, objectives, and solutions are used, to sum up, policy contents while consequence 203 directly relates to the performance of policy solutions and policy outcomes. It emphasizes that policy intentions 204 might become ineffective through the real implementation procedures of the adopted program approaches and 205 solutions, which culminated in poor or unintended consequences. 206

# <sup>207</sup> 9 b) Elements of Road Construction

Road construction involves the clearing of dedicated right-of-way aimed at overcoming the natural geographical 208 obstacles with lower grades to permit foot or vehicular movement as stipulated by official guidelines or the 209 standard set by law (O'Flaherty, 2002). The process is initiated by deforestation, digging, blasting, and removal 210 of earth, and rock, which is followed by the construction of embankments, bridges and tunnels. A road pavement 211 is the hard-wearing 1. Trunk A Road: These are national highways or major roads of a country that connect 212 213 state or regional capitals and cities. These roads are either dual carriageway or expressway. 2. Trunk B road: 214 These are state highways that link markets and towns within the state to the state capital and also connected 215 to national highways. 3. Trunk C road: These are roads built within the Municipal, local community or urban 216 and rural roads that connect farmland and markets with towns within one province 4. The International: These are roads that are constructed linking two or more countries. 217

material laid down on the dedicated route aimed at sustaining vehicular movement on a road or walkway. Road engineers use asphalt or concrete materials laid on a compacted coarse base, which are often provided with signs and symbols to guide traffic. For low-impact roadways and walkways, permeable technique is currently in use while a variety of road building equipment is employed in road construction.

After full considerations of the environment, designing, planning, approval, and legal obligation requirements; 222 the surveyor would then set the road alignment. The gradient and radii are mapped out and designed in a 223 way that fits the natural ground levels and reduces the quantity of cut and fills (Kincaid, 1986). Adequate 224 efforts would have to be taken to preserve reference Benchmarks. The road is designed and constructed for the 225 primary use of vehicle and pedestrian movement (Lay, 1992). Environmental considerations and storm drainage 226 are concerns that informed why sediment and erosion controls are constructed to prevent any detrimental effects. 227 On the drainage lines, the sealed joint laid in the road easement with runoff coefficients and features expected 228 to be adequate for the zoning of the land and storm water system. Drainage systems must be able to withstand 229 the ultimate design flow intensity from the upstream catchment for drainage discharge outfall into rivers, creek, 230 and sea with approval of the appropriate agency. 231

According to Oduwole (2002), to meet the minimum California Bearing Ratio results, general fill material 232 should be free of organics and have a low plasticity index. The Select fill should be composed of broken rock and 233 gravel or sand-clay below a particular tiny piece and be free of clay. After each layer of fill is compacted, the 234 roadbed must be "proof rolled" until the roller that passes over an area create no visible mark or deformation; 235 the section is then deemed to have complied. The roadway construction is completed by paving with asphalt 236 or being left with gravel surfaces, which depend on expected usage and economic factors. Road safety signs 237 238 including road surface marking, raised pavement markers, traffic signs, crash barriers, and other forms of road 239 surface marking put in place for safety improvement, which in due course might require maintenance.

#### <sup>240</sup> 10 c) Incremental Model

The concept of disjointed incrementalism as simplified and made easy to grasp. As argued by Lindblom (1979), in most decision situations, people do not have all the necessary understanding, the time, the cognitive capacity, or the resources to conceive of all the options to visualize all the consequences of each option, to establish a set of desired and weighed. Incrementalism is a policy choice adopted at a particular time aimed at a gradual increase of value adjustment from a previous policy choice. The model has witnessed criticisms from methodological, empirical, and theoretical scholars but survives because there is no alternative replacement.

The policy change is the idea embraced by policymakers to ensure step-wise correction since the late 1950s. The 247 concept has been applied successfully in the study of public budgets. Drawing on Lindblom (1959), Wildavsky 248 (1964), scholars have argued that the results of the annual budget seem to drift instead of shifting abruptly. 249 The concept of "base" and "fair" share that was premised on each year's budget should be on the previous year 250 allocation and that any marginal increase should relatively be shared equally and made to cut across categories 251 and agencies which resultantly affect the budget. The incremental model as a policy choice is said to be descriptive 252 and has been under profound criticism by scholars that it did not survive. Critics have pin-pointed challenges in 253 the models used by Davis, Dempster, & Wildavsky (1974); (Gist 1982;Natchez & Bupp 1973), in the standards 254 used (Wanat 1974), in the model clarity of terms (Berry 1990; Hayes 1992), and in the nature of the process of 255 making choices (Padgett 1980(Padgett , 1981)). Others complain of identified challenges associated with the 256 complexities in the simple theories of budgeting, in particular, the incremental model (Kiel & Elliott 1992;Rubin 257 1988: ??chick 1998). 258

Notwithstanding other criticisms, the budget performance arising from models of decision making featuring 259 "considerations of limited rationality in the face of complexity and uncertainty" was the parameter employed 260 by incrementalists (Davis, Dempster, & Wildavsky, 1974). Within the structure, outputs govern by standard 261 operating procedures, are incremental, in which participants are expected to use step-wise decision rules for 262 three reasons. The first concerns the easiness of reversing mistakes following changes. The second involves the 263 participant's desire to establish stable expectations in a complex and uncertain environment. The third deals with 264 the nature of interacting, overlapping, and conflicting institutions in American politics, which push participants 265 to compromise (Davis, Dempster & Wildavsky, 1974;Fenno, 1966;Lindblom, 1959;Wildavsky, 1964). 266

However, Lindblom (1968) argued that incrementalism was possible to achieve a radical shift as "one person's incremental decision could be another man's radical change." He conceded the argument for forwarding the planning and application of rational analysis using analytical techniques. Finally, it is worthy to note that the transport system has witnessed incremental processes both in the National Transport policy formulation starting from 1965 policy statement to 1993 national Transport Policy Document with subsequent reforms in 2003, 2008, and 2010. The implementation of provisions of road transport infrastructures also conforms to incremental ideals.

### <sup>273</sup> 11 III. Methodology a) Research Design

The study employed a descriptive design that involved a systematic collection, presentation, tabulation, interpretation, and analysis of data on road transport reform implementation, focusing road network infrastructure underdevelopment in Nigeria.

# 277 12 b) Study Population

The study population consisted of civil servants whose total population was 2683. The civil servants included the senior staff on grade level 7 and above in the selected ministries and agency. The breakdown of the population

# 16 A) DEMOGRAPHIC AND SOCIO-ECONOMIC CHARACTERISTIC OF THE RESPONDENTS

is as follows: Federal Ministry of Works had 1223; the Federal Ministry of Transport had 975, and Federal Road
 Maintenance Agency had 485.

# <sup>282</sup> 13 c) Sampling Techniques and Sample Size

The administration of the questionnaire adopted a multi-stage sampling technique. The first stage involved the use 283 of proportional sampling technique which ensure that adequate representation of the agency irrespective of their 284 population; and application of 10% random sampling to personnel of the Ministry of Transport, Federal Ministry 285 of Works and FERMA that are statutorily responsible for policy formulation, implementation maintenance, 286 design and construction of federal highways. The study focused on roads from three geo-political zones, namely 287 South West, South-South, and North Central, purposively selected from the six geo-political zones of Nigeria 288 for data collection and which seemed to represent at least 50% of the six geopolitical zones in Nigeria. Also, 289 two-state capitals are purposively selected from each of the zones: Oyo State (Ibadan), Ondo State (Akure), Edo 290 State (Benin), Delta State (Asaba), Kogi State (Lokoja) and Kwara State (Ilorin). The choices of these states 291 were informed because all states capitals are within federal road network and also forming a network with those 292 not selected. Also, for each Ministry and Agency, a simple random technique of balloting system was used in 293 selecting respondents. These making it possible for each member of staff understudy to have an equal chance 294 of being sampled. The sample size of 268 that constituted 10.1% considered a fair representation of the above 295 population under study. The distribution of 268 copies of the questionnaire administered to the respondents was 296 as shown in Table 1 297

# <sup>298</sup> 14 d) Sources of Data Collection

In the course of this study primary and secondary sources of data collection are use. Gathering of the primary 299 data are done with the use of a set of open-ended and close-ended questionnaires, structured interviews, and 300 personal observation. Two hundred and sixty-eight (268) copies, representing 10% administered to civil servant 301 respondents drawn from the senior staff cadre of Federal Ministry of Works, Federal Ministry of Transport, 302 and Federal Road Maintenance Agency. Structured interviews conducted on the Managerial Staff (Directors, 303 Road Engineers, and Head of Departments), who volunteered and cooperated with the researcher. Personal 304 observations were also used to assess physical infrastructure facilities, equipment, and others that were incidental 305 to the study. 306

Secondary data collected from sources including Federal Ministry of Works, Federal Ministry of Transport,
 and Federal Road Maintenance Agency. Others included official documents of the selected ministries, journal
 articles, books, magazines, and internet resources.

### <sup>310</sup> 15 IV. Data Presentation Analysis and Discussion

# <sup>311</sup> 16 a) Demographic and Socio-economic Characteristic of the <sup>312</sup> Respondents

This section discusses some demographic and socio-economic characteristics of the respondents, comprising civil servants from the ministries and agency under considerations. Demographic features considered include age, educational qualification, and grade level, on the one hand, and driving experience, type of driver's license, involvement in road accidents, among others, on the other.

The study revealed that close to two-thirds (62.9%) of the respondents were aged between 31 and 40 years, about one-third (32.6%) were aged between 41 and 50 years, and 4.5% were aged between 21 and 30 years (Table 2). Variations in required formal educational attainment for civil service employment and working as a transporter might be significant in explaining observed differences in the age distribution of respondents.

Distribution of respondents revealed that onequarter (25.0%) of the respondents have a postgraduate 321 qualification, close to four-fifths (73.5%), of the civil servant, had a first degree or its equivalent. While none of 322 the civil servants had educational qualifications less than the first degree. Observed educational attainment is a 323 requirement for career civil servants. The fact that higher education as requirement for innovation in the service 324 could also be significant. Table 2 revealed that 45.4% of the sampled civil servants were from the Ministry of 325 Power, Works, and Housing; 36.4% were from the Ministry of Transport, and 18.2% were from FERMA. Since 326 the proportional sample taken from each Ministry/Agency, employed personnel in these agencies could be seen 327 to be in the proportion of the total sample taken for the study. Of the 264 civil servants sampled, 0.8% was in 328 the Directorate cadre, 7.6% were in the management cadre, and 91.6% were senior staff, implying that adequate, 329 330 relevant information obtained from the sampled population.

Grade Level of the sampled population followed a similar pattern with their designation: 0.8% was on levels 14 to 17; 12.1% were on levels 11 to 13, and 87.1% were on 8 to 10. Years of service of respondents also followed a similar pattern of being bottom-heavy: only 6.1% have spent more than 15 years; 89.4% have spent between 6 and 15 years, and only 4.5% have spent between one and five years. The study sought to know if the staff had a personal copy of the draft National Transport document, as this presented likelihood of having to make reference to it and get used to the provisions and thereby provide a basis for its successful road transport reform implementation. It revealed that 42.4% of the respondents have their copy, while 57.6% did not have. Personal interaction with the staffers that claimed not to have a copy of the policy revealed that they all claimed to be very familiar with the contents, which they claim is on the internet. Directors interviewed by the researcher argued that: 'if there was no National Transport Policy, then there will be no Federal Ministry of Transport.

# <sup>341</sup> 17 b) Investigating the Extent of Road Transport Reform <sup>342</sup> Implementation in Nigeria

The extent of the road transport reform implementation indicator included the following: network interconnectivity, road network development, alternative sources of funding attraction of private investors, and concessionaire of roads.

The National Transport Policy Reform of 2003 recognized the need for interconnectivity of road linkages to rail, 346 airport, waterways, and the port. The interconnectivity is expected to facilitate and promote both accesses to local 347 and international markets' export and import oriented goods and services. Of the 264 respondents sampled for 348 the study, 230(87.1%) strongly agreed that the expected connectivity had been 'fully implemented,' and 13(4.9%)349 believed that the connectivity was only partially implemented (Table 3). Investigating on the anticipated road 350 development expected to be achieved by the implementation of the policy revealed that 301(91.3%) affirmed that 351 the road network development was at least 'partially implemented'; and only 4(1.5%) of the respondents were of 352 the opinion that the road network development was 'not implemented' at all. Investigations on the implementation 353 of provisions for sourcing alternative sources of funds for road management revealed that 179(67.8%) were 354 of the opinion that this provision was 'poorly implemented'; 64(24.2%) affirmed the non implementation of 355 the provision; and only 2(0.8%) of the respondents felt its contrary. Rating for attracting private investors 356 received a similar pattern: 33(12.5%) of the respondents believed in its either poor implementation or 'Not 357 implemented' at all (212(80.3%)). Implementation of roads concessionaire judged in a similar vein: 244(92.4%)358 of the respondents either affirmed that the policy was 'poorly implemented' (57(17.6%)) or 'Not implemented' 359 at all (247(76.2%)). Investigation on the implementation of the provisions on government disengagement from 360 transport service provision in Table 4 revealed that 235(89.0%) of the respondents thought that it had been 361 either fully implemented (117(44.3%)) or 'partially implemented' (118(44.7%)). In the case of road maintenance, 362 174(65.9%) of the respondents judged this provision as being 'poorly implemented': 68(25.8%) judged it 'partially 363 implemented' while only 4(1.5%) were positive about its full implementation. Investigation on the implementation 364 of the provision of transit parks revealed that 244(92.4%) of the respondents either affirm that its 'poorly 365 implemented' (47(17.8%)) or 'Not implemented' (197(74.6%)). Investigations on the implementation of provision 366 for enforcement of traffic regulations received better rating: 238(91.9%) of the respondents either rated it 'fully 367 implemented' (99(37.5%) or 'partially implemented' (139(52.7%)).368

#### <sup>369</sup> 18 c) Interview Analysis

The conducted interview aimed at eliciting information relating to policy issues that could not be adequately 370 covered by the questionnaire. When asked about the extent of road transport reform implementation, the 371 interviewed directors said that 'all you have seen about road transport system are the achievement of the extent 372 of road reform Volume XIX Issue VIII Version I 51 (H) implementation.' They agreed that the road might have 373 issues, but that was not enough to deny our presence. The road maintenance, rehabilitation, and construction 374 suffered a major setback because of the non existence of parastatals, which incapacitated FERMA and deprived 375 it of funds that could have been paid directly to the National Road Commission, who was to manage and re-376 distribute the said money. The extent of road transport development is in exhaustive. As new areas developed, 377 new roads are constructed. 378

On the quality of the job done, the directors said that the foreign contractors have adequate field equipment and technology. The interviewees affirmed that there was an underline corruption when projects awarded to foreigners failed to conform to the specified standard. On the issue of corruption, they agreed that political corruption is the most destructive one, which is incomparable with bureaucratic corruption.

The fieldwork involved having to travel around the three geo-political zones (South-South, South West, and North Central) and in particular, the purposively selected six State capitals (Ibadan, Akure, Lokoja, Ilorin, Benin, and Asaba). The road networks were generally characterized with potholes and failed portions to the extent that in some cases pools of water made it impossible for small cars to pass through. The roads had become worst than as described by Buhari (2000), Sumaila (2013), and other scholars.

#### <sup>388</sup> 19 d) Analysis of Secondary Data

Since coming on board of the fourth republic in 1999 in Nigeria, the road network has not been given priority as before. The investment profile declined gradually from 1990, which stood at 70.14% for that year allocation to 31.03% for the year 2002 total allocation to the transport sector. It concise with the period when 50% of Federal roads, 20% of the State roads, and only 5% of the Local government roads were in reasonably good condition as claimed by ??uhari (2002). But an insider confirmed that since the year 2012 to date, no meaningful allocation came to the transport sub-sector, which informed why road pavements become impassable. Equally related to the funding was the performance on the road activities. Funding dictated the extent of work done, as shown in the estimated size of the road networks in Nigeria in Table 5. The Federal Government-owned 34,100km (17.0%) in which 26,600 km paved when 8,600km remained unpaved, which was the primary concern of this study. As illustrated by the bar chart in figure 1, which compared the activities of the Federal, State, and Local Governments on the national road networks. The estimated size of the roads under the State Government stood at 30,500km (16%) when the Local Government roads constituted over 130,600km (67%). What a lopsided road length arrangement?

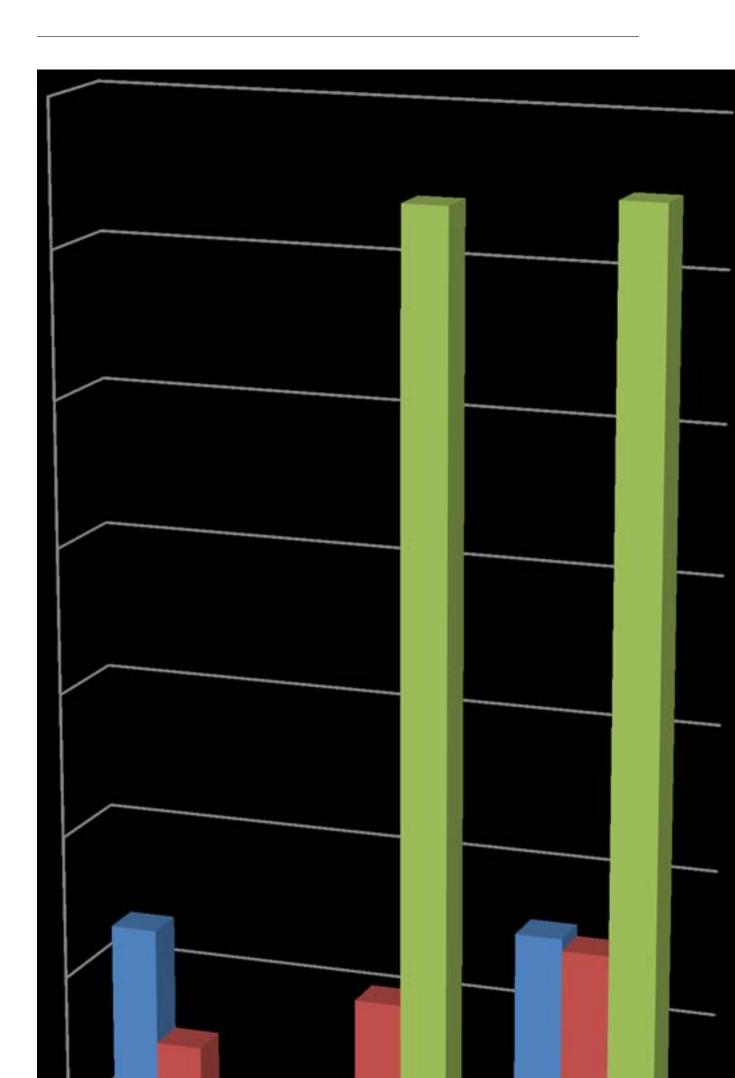
#### <sup>402</sup> 20 e) Discussion of Findings

In the course of this study, many scholars' works reviewed in the area of policy formulation and implementation, as well as the role played by the stakeholders concerning the road transport infrastructural development in Nigeria and the developed countries of the world. This study intends to juxtapose the obtained results with the reviewed literature to draw out the area of convergence or that of divergence.

Reform is a change expected to bring to bear on the course of action. The extent of road transport reform has 407 been within the policy framework, available technology, and financial resources. The 1993 National Transport 408 Policy document at inception recognized and promoted modal development. This document has been reformed in 409 2003, 2008, and 2010 to address the existing or foreseeable identified gaps. These reformed efforts have manifested 410 in the present number of kilometers of road lengths and its quality (91.6%), which was not contradictory to the 411 position held by Buhari (2000) and ??BN (2002). The extent of the road network development was judged 412 (92.8%) as being partially implemented which agrees with that obtained from the secondary data in fig. 1 which 413 are in consonance with position held by McCawley, 2010 & Kingombe, 2011, that infrastructural investment and 414 maintenance can be costly, and the demand for infrastructure surpasses amount invested. The interconnectivity 415 of road with rail, port, air, and waterway was fully implemented although its suitability may be in doubt. 416 Alternative sources of funding were poorly implemented (67.8%) as it has not impacted on the infrastructural 417 provision or maintenance. The above result confirmed Oroleye's (2019) position on the National Assemblies 418 failure to establish road institutions that will generate funds. As a result of the inability of the government to bear 419 the full cost of road construction and maintenance, the Public-Private-Partnership reform process was adopted. 420 This program aimed at attracting private organizations to partner with the government to jointly finance road 421 construction. But contrary to expectations, the program has not been implemented (80.3%) probably to justify 422 the position held by Finally, there was conformity in the data generated through the questionnaire administration 423 and those gathered through interview sessions in respect of the extent of road transport reform implementation 424 in Nigeria. 425

426 Source: Federal Ministry of Works. <sup>1 2</sup>

 $<sup>^1 \</sup>odot$  2019 Global Journals<br/>Road Transport Policy Reforms in Nigeria: A Case of Underdeveloped Infra<br/>structure  $^2 \rm Road$  Transport Policy Reforms in Nigeria: A Case of Underdeveloped Infra<br/>structure



1

Ministry and Agency	Population	size	Percentage
Federal Ministry of Transport	975	98	36.6
Federal Ministry of Works	1223	122	45.5
FERMA	485	48	17.9
Total	2683	268	100.00

[Note: Sources: Fieldwork July 2019]

#### Figure 2: Table 1 :

 $\mathbf{2}$ 

Civil Servants

#### Figure 3: Table 2 :

#### 3

Fully implemented       230       87.1         Partially implemented       13       4.9         Poorly implemented       9       3.4         Not implemented       8       3.0         No response       4       1.5         Total       264       100.0         2       Road Network Development       4       1.5         Fully implemented       4       1.5         Partially implemented       241       91.3         Poorly implemented       241       91.3         Poorly implemented       2       0.8         No response       4       1.5         Total       264       100.0         3       Alternative sources of funding       5         Fully implemented       2       0.8         No response       10       3.4         Poorly implemented       9       3.4         Poorly implemented       9       3.4         Poorly implemented       10       3.8         Total       264       100.0         4       The attraction of Private Investors       5         Fully implemented       64       24.2         No response       10 <td< th=""><th>1</th><th>Interconnectivity of road/ rail/port</th><th>Frequence</th><th>Percentage</th></td<>	1	Interconnectivity of road/ rail/port	Frequence	Percentage
Poorly implemented93.4Not implemented83.0No response41.5Total264100.02Road Network Development264100.02Road Network Development41.5Fully implemented24191.3Poorly implemented134.9Not implemented20.8No response41.5Total264100.03Alternative sources of funding2Fully implemented20.8Poorly implemented93.4Poorly implemented93.4No response100.03Alternative sources of funding17967.8Not implemented6424.2No response103.8Total264100.04The attraction of Private Investors104The attraction of Private Investors10Fully implemented72.6Poorly implemented3312.5Not implemented3312.5Not implemented21280.3No response103.8			-	
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Partially implemented72.6Poorly implemented3312.5Not implemented21280.3No response103.8	4	The attraction of Private Investors		
Poorly implemented3312.5Not implemented21280.3No response103.8		Fully implemented	2	0.8
Not implemented21280.3No response103.8		Partially implemented	7	2.6
No response 10 3.8		Poorly implemented	33	12.5
		Not implemented	212	80.3
		No response	10	3.8
Total $264  100.0$		Total	264	100.0

Figure 4: Table 3 :

 $\mathbf{4}$ 

6	Government disengagement from transport services provision	Frequency	Percentage
	Fully implemented	117	44.3
	Partially implemented	118	44.7
	Poorly implemented	14	5.3
	Not implemented	5	1.9
	Sub total	254	
	No response	10	3.8
	Total	264	100.0
7	Road Maintenance		
	Fully implemented	4	1.5
	Partially implemented	68	25.8
	Poorly implemented	174	65.9
	Not implemented	4	1.5
	Sub total	254	
	No response	14	5.3
	Total	264	100.0
8	Provision of transit parks		
	Fully implemented	4	1.5
	Partially implemented	6	2.3
	Poorly implemented	47	17.8
	Not implemented	197	74.6
	Sub total	254	
	No response	10	3.8
	Total	264	100.0
9	Enforcement of traffic regulations		
	Fully implemented	99	37.5
	Partially implemented	139	55.7
	Poorly implemented	14	5.3
	Not implemented	2	0.7
	Sub total	254	
	No response	10	3.8
	Total	264	100.0

[Note: Source: Fieldwork January 2019.]

Figure 5: Table 4 :

#### $\mathbf{5}$

OWNERSHIP	PAVED(Km)	UNPAVED(Km)	TOTAL(Km)
FEDERAL GOVERNMENT	26,500	5,600	32,100
STATE GOVERNMENT	$10,\!400$	20,100	30,500
LOCAL GOVERNMENT	$2,\!600$	128,000	130,600
TOTAL	$39{,}500$	153,700	193,200

[Note: Source: Federal Ministry of Works, 2012]

Figure 6: Table 5 :

#### 427 .1 V. Conclusion

The study concluded that the country's unimpressive performance on road transport reform implementation attributed to the Federal Government and National Assemblies inability to establish the various agencies and institutions which include National Road Transport Commission, Toll Gate Agency, etc. that will not only execute the reform implementation with the Act of Parliament but generate necessary fund for road infrastructural development through taxes. This gap was responsible for the road infrastructural under development. Hence the extent of activities of road transport reform has fallen short to cope with economic activities and the increasing population of Nigeria.

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