## Infrastructure Growth And Sustainable Development: Review Of Lagos City Profile

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#### Abstract

Lagos City is one of the fastest-growing megacities in the world, with a population of over 20 million people. Over the past few decades, the city has experienced significant infrastructure growth, including the construction of new roads, bridges, airports, and other transport facilities, as well as the expansion of housing, commercial, and industrial areas. While this growth has brought many benefits to the city, it has also created significant challenges, including environmental degradation, traffic congestion, and social inequality. This paper reviews the infrastructure growth and sustainable development of Lagos City, with a focus on the relationship between infrastructure and sustainability. The article starts out by giving a quick summary of the municipality's profile, including its history, population, and economic structure. It then examines the current state of infrastructure in Lagos and its impact on economic, social, and environmental sustainability. The study employs a literature review approach, drawing on various academic and non-academic sources to gather relevant data and insights. The findings indicate that while Lagos has made significant progress in infrastructure development, there are still several gaps and challenges that need to be addressed to ensure sustainable development. These include inadequate funding, poor governance, lack of citizen participation, and environmental degradation. To address these challenges, the paper proposes potential solutions that could promote sustainable infrastructure development in Lagos. These solutions include increased public-private partnerships, improved governance, community engagement, and investment in green infrastructure. The paper also highlights the importance of leveraging new technologies, such as digital infrastructure, to improve the efficiency and sustainability of infrastructure systems in Lagos. Altogether, the paper concludes that sustainable infrastructure development is critical to achieving sustainable development goals in Lagos and other rapidly growing cities. The paper recommends that policymakers, planners, and stakeholders prioritize sustainable infrastructure development as a key strategy for promoting economic growth, improving quality of life, and protecting the environment in Lagos City.

Keywords: Infrastructure Growth, Sustainable Development, City Profile, Urbanisation, Lagos

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#### I. INTRODUCTION: LAGOS CITY

Lagos, Nigeria is one of the fastest-growing cities in the world, with a population of over 21 million people. As the economic capital of Nigeria, Lagos is a hub for business and commerce, attracting people from all over the country and beyond (Xiao & Adebayo, 2020). However, with rapid urbanisation comes a host of challenges, including infrastructure deficits and environmental degradation. The connections between the expansion of infrastructure and environmentally friendly growth in Lagos, Nigeria, will be investigated in this study.



Map of Lagos Metropolitan Area

#### BACKGROUND:

**Location:** Located on the southwestern coastline of Nigeria, Lagos is the economic and industrial capital of the Country. It has a daytime population of about 10 million people.

Geography: Lagos experiences almost a year-round rainy season. Temperature varies from 21 to 32 Degrees Celsius.

**Historical Development:** The vast amount of hospitable and industrious people in and around Lagos accounted for the rapid development and industrialization of the City. European adventurers and traders, who transacted in Slavery and other items arrived on the shores of Lagos as early as the 14<sup>th</sup> Century.

**Regional Significance:** Through Lagos and other coastal cities, many Africans departed the Continent for the plantations of America, Europe, and the Caribbean.

#### Aim and Objectives

The aim of this study is to examine the link between expanding physical assets and environmentally friendly growth throughout Lagos, Nigeria. The research will look at how infrastructure growth can contribute to sustainable development in Lagos and the challenges and opportunities associated with this. The study's goals are to:

i. Look at Lagos's infrastructure as it is right now. and identify areas of need for development.

i. To analyze the impact of infrastructure growth on sustainable development in Lagos, including economic growth, social development, and environmental sustainability.

ii. To identify the challenges and opportunities associated with infrastructure growth and sustainable development in Lagos, including funding, governance, and stakeholder engagement.

iii. To explore best practices and case studies of infrastructure development for sustainable development in other cities that could be applied to Lagos.

iv. To make recommendations for policies and procedures that will promote environmentally friendly development and infrastructural growth in Lagos.

Broadly, The study attempts to advance knowledge of Lagos City's relationship with the expansion of infrastructure and environmentally friendly growth and to provide insights for policymakers, practitioners, and stakeholders on how to promote sustainable infrastructure development in the city.

#### II. RESULTS AND DISCUSSION

#### Literature Review

A comprehensive literature review will be conducted to identify key concepts and theories related to infrastructure growth and sustainable development, as well as relevant case studies and best practices from other cities.

#### Methodology

a. This study will use a mixed-methods methodology that combines both quantitative and qualitative approaches. The following steps will be taken in the study:

b. **Data Collection:** Data will be collected through surveys, interviews, and Discussion groups involving participants from the public and corporate sectors as well as grassroots groups, and community members. The surveys will be administered using online tools, while the interviews and focus group discussions will be conducted in person or via video conferencing platforms.

c. **c. Data analysis:** Quantitative as well as qualitative analysis techniques will be used to examine the acquired data. While descriptive statistical tools will be used for evaluating the data that is quantitative, analysis of content will be used to analyze the qualitative data.

d. **Synthesis of Findings**: The findings from the data analysis will be synthesized to identify key themes and trends related to infrastructure growth and sustainable development in Lagos.

e. **Recommendations**: Based on the findings, policy and practice suggestions will be presented to support the environmentally friendly advancement of infrastructure in Lagos. The study will use a purposive sampling technique to select participants for the surveys, interviews, and focus group discussions. The sample will include representatives from the government, private sector actors, civil society organizations, and community members. Additionally, the study will consider ethical issues like informed permission, anonymity, and personal information privacy.

#### 1. Development of Infrastructure in Lagos

Infrastructure development is essential for the growth and development of any city, and Lagos is no exception. The Lagos State government has made significant investments in infrastructure development in recent years, including the construction of new roads, bridges, and public transport systems (Ogunbiyi, 2021). In addition, the government has invested in the provision of basic services such as water and electricity, as well as the expansion of health and education facilities.

One of the most significant infrastructure projects in Lagos is the Lagos State Light Rail Transit Project. This project aims to provide a modern, efficient, and environmentally friendly mode of transportation for the people of Lagos (Uwaegbulam, 2023). The first phase of the project, which runs from Mile 2 to CMS, was completed in 2021, and work is ongoing on the second phase.

#### 1.1 **Beyond Infrastructure Development in Lagos**

Infrastructure growth in Lagos has been a critical driver of economic development in the city. Lagos is a hub for business and commerce, attracting people from all over the country and beyond (Abass, 2021). As such, the city has seen significant investments in infrastructure development, such as:

**1.1.1 Transportation:** Lagos has one of the most extensive transportation networks in Nigeria, with a variety of modes of transportation, including buses, taxis, and motorcycles. The government has invested in the construction of new roads, bridges, and flyovers to facilitate connectivity to various areas of the metropolis and reduce congestion caused by traffic. The Lagos State Light Rail Transit Project is another significant infrastructure project aimed at providing a modern, efficient, and environmentally friendly mode of transportation. Other forms of infrastructure development include Shelter, Social Development, Environment, and other issues arranged in the chapters below.

#### **CHAPTER 1: SHELTER**

**Security of Tenure**: There is improved security of tenure. There is no impediment to the security of tenure. This is because of good governance and the evolving democratic institution. Figure 1 shows no official impediments to housing. While this may be true on Victoria Island, Ikoyi, and other exotic places, there is very little on the ground to show for this in Mainland Lagos.

#### 2. Promote the right to adequate housing

#### qualitative data 1: housing rights

country level	
1.Does the Constitution or national law	
promote the full and progressive realisation of the right to adequate housing ?	no
include protections against eviction?	no
2. Are there particular impediments :	
to owning land ?	none
to inheriting land and housing ?	none
to taking mortgages in their own names ?	none
to <u>women</u> owning land ?	none
to women inheriting land and housing ?	none
to women taking mortgages in their own names ?	none
to particular groups owning land ?	none
please name the groups	
to particular groups inheriting land and housing ?	none
please name the groups	
to particular groups taking mortgages in their own names ?	none
please name the groups	

Figure 1. Rights to Adequate Housing in Lagos, Nigeria

## 1. Provide security of tenure

#### indicator 1 - tenure types

Type of tenure:	1993	1998	1993	1998
1. Formal Ownership:	% of all households	% of all households	% of women- headed households	% of women- headed households
Owned	19.8%	22.5%	12.8%	15.0%
Purchasing (mortgage)	21.2%	21.5%	22.6%	25.6%
sub-total	41.0%	44.0%	35.4%	40.6%
2. Tenancy:				
Private rental	23.5%	22.5%	19.8%	20.7%
Social Housing	21.8%	25.0%	27.7%	27.4%
Sub-tenant	5.2%	1.5%	9.5%	6.3%
sub-total	50.5%	49.0%	57.0%	54.4%
3. Squatter:				
without rent	3.5%	2.7%	2.9%	2.4%
with rent	2.5%	2.3%	2.2%	2.2%
sub-total	6.0%	5.0%	5.1%	4.6%
4. Other				
please provide sub-totals if homeless	1.8%	1.5%	1.9%	0.0%
information is not available for the requested level of other	0.7%	0.5%	0.6%	0.0%
detail. sub-total	2.5%	2.0%	2.5%	0.4%
TOTAL (should be equal to 100%)	100.0%	100.0%	100.0%	100.0%

Figure 2. Tenure Types in Metropolitan Lagos Under Various Ownership Types

Figure 2 shows Tenure Types and ownership of properties, but the hard fact is that there are more tenure types than can be documented in Lagos. A lot needs to be done to ensure that basic individuals can truly lay claim to a category of property.

**Right to Adequate Housing:** There is no documented right to adequate housing. Whenever it is the government agency carrying out any program of eviction, it attracts a lot of public outcry.



Figure 3. Evictions in Lagos - No Official Records Available for Evictions

There are legal means of documenting ownership of properties. These include inheritance and direct application for the acquisition of a Certificate of Occupancy among others.

Access to Land: Access to land is improving - especially from a gender-balanced point of view.



Figure 4. Access to Land in Lagos

Figure 4 is the official position but there are many layers of corrupt local owners who go about collecting money from unsuspecting new buyers making land ownership very difficult

Access to Credit: Other than poverty and low income, there are no obvious impediments to credit

city level			
% of dwellings purchased:	1993	1998	
that are covered by mortgages:	5%	6%	
that are covered by non-mortgages:	95%	94%	
Total number of loans attributed:			
mortgage loans:	22	18	
non-mortgage loans:	29	39	
Vhat changes do these results suggest in terr Mortgage loans are		nortgage and non-mortg otain by the average citiz	
Conversely, non-m	ortgage loans are	relatively easier to obta	in. There is limi-
ted bureaucracy inv	volved. Interest ra	es are equally more attr	ractive for the non-
mortgage loans;			

Access to Basic Services: This is improving considerably.

**Electricity:** Lagos faces significant challenges in the provision of electricity due to the insufficient capacity of the national grid. To increase the supply to the municipality of electricity and water, the authorities have made an investment in building fresh power plants and renovating those that already exist (Oladipo, 2023). The Lagos State Electricity Board has also implemented a program to provide prepaid meters to consumers to ensure transparency and accountability in billing.

**Health and Education Facilities:** The Government of Lagos State has made investments in the municipality's health and educational infrastructure. This phenomenon includes building new first-rate medical facilities, constructing additional healthcare facilities, and renovating current ones (Egbewunmi, 2023). By doing teacher preparation programs and the distribution of educational materials, the authorities have also started up an initiative to raise the state's educational standards.

In summary, infrastructure growth in Lagos has been significant, and the government's investment in this area has been commendable. However, more needs to be done to address the infrastructure deficits in the city, particularly in the areas of sanitation, waste management, and affordable housing.

## 5. Promote access to basic services

#### Indicator 6: access to water

% of households with access to water :	1993	1998	
all settlements	24.7%	25.7%	within 200 m from the house
the former of the second second	7.00/	45 40/	111: 000 - C - 11 - L
Vhat changes do these results suggest in te	rms of access to w	ater ?	ms of access to water.
Vhat changes do these results suggest in ter these results sugg	rms of access to w jest an overall impr	rater ? ovement in ter	
Vhat changes do these results suggest in te these results sugg In the informal	rms of access to w jest an overall impr settlements, the in	rater ? ovement in ter oprovement in	

#### Indicator 7: household connections

city and country levels			
% households			Only households directly connected
connected to :	1993	1998	within their house
in all settlements: water	24.7%	25.7%	
sewerage	3.5%	12.1%	
electricity	33.7%	41.4%	
telephone	n.a	n.a	
in informal water	22.7%	24.1%	
settlements: sewerage	1.2%	7.1%	
electricity	28.5%	34.8%	
telephone	n.a	n.a	
What changes do these results suggest in t	erms of access t	o services ?	
Access to basic	services are seer	n to have improved	
This is largely du	e to self help by t	he individuals then	nselves rather than any
government inter	vention.		
The prolonged in	tevention of milita	ry in the political a	rena of Nigeria brought
untold hardship to	o the citizenry		

#### **CHAPTER 2: SOCIAL DEVELOPMENT AND ERADICATION OF POVERTY**

**Health and Safety**: Facilities have improved especially for Primary Health Care. Awareness programs are also being organized by the stakeholders like UNICEF, WHO and Health Departments and Parastatals of the Central and Local Governments (World Health Organization, 2023). The result is a reduced Infant Mortality Rate and healthier citizenry.

## 6. Provide equal opportunities for a safe and healthy life

## Indicator 8: under-five mortality

	1993	1998	
female	9.87%	8.64%	number of death for children below 5 years old during the year/ average
male	11.74%	10.56%	number of live birth during the last
TOTAL female and male	21.61%	19.20%	years
there is no notable change, what is planned to	o improve the lev	el of child morta	
there is no notable change, what is planned to The reasons for the	o improve the lev decrease of chile	el of child morta d mortality bord	er on improved health-care
there is no notable change, what is planned to The reasons for the Considering the hur	o improve the lev decrease of child nan and material	el of child morta d mortality bord resources of th	er on improved health-care ne country, the figures are
f there is no notable change, what is planned to The reasons for the Considering the hun outrageous.However	o improve the leve decrease of chile nan and material r, under the pres	el of child morta d mortality bord resources of th ent political disp	er on improved health-care he country, the figures are bensation, there is some
Considering the hur outrageous.Howeve	o improve the leve decrease of chile nan and material r, under the pres	el of child morta d mortality bord resources of th ent political disp	er on improved health-care ne country, the figures are

#### Indicator 9: Reported crime rates

city level				
1993	ann male	ual number of vio female	all	•
Homicides	n.a	n.a	245	/1000 population
Rapes	n.a	n.a	7,427	/1000 population
Thefts	n.a	n.a	3,158	/1000 population
1998				
Homicides	n.a	n.a	250	/1000 population
Rapes	n.a	n.a	6,116	/1000 population
Thefts	n.a	n.a	3,371	/1000 population
What are the reasons of the increase or deci	ease of crime	s?		
Do these results reflect the safety conditions	for the populat	tion ?		
Increase in the rep	ported cases a	are due to the desire	of the average	citizen to
get rich quick; the	increase in the	e crimes reported re	flect the monet	ary instinct
of the offenders/ci				
These results refle	ect an increase	e in the level of soph	istication of the	offenders
		the security unit of th		

#### Qualitative data 2: urban violence

In the city or the country, are there:	1993	1998
a) areas considered as dangerous or inaccessible to the police	no	no
b) violence at school	no	no
c) an official policy against domestic violence	yes	yes
d) a crime prevention policy	yes	yes
e) a weapon control policy	yes	yes
f) victim of violence assistance programme(s)	no	yes

**Social Integration:** There is an obvious reduction in Poor Households. Similarly, there is a reduction in the number of Poor Women-Headed Households.

**Poverty:** Despite its economic growth, Lagos remains one of the poorest states in Nigeria, with a poverty rate of over 30%. Poverty leads to social inequality and reduces the ability of citizens to access fundamental amenities including housing, healthcare, and education (HUMAN RIGHTS WATCH, 2021). By doing the delivery of social services, the Lagos State government is implementing action to combat impoverishment and the creation of

employment opportunities. Additionally, the state government has put in place programs to combat impoverishment, which includes the Lagos State Employment Trust Fund, which offers funding to start-ups and small-scale enterprises.

#### **Poverty in Lagos**

Poverty remains a significant challenge in Lagos, despite its economic growth and development. According to the National Bureau of Statistics, Lagos has a poverty rate of over 30%, making it one of the poorest states in Nigeria (National Office of Statistics, 2022). The high poverty rate is attributed to a range of factors, including:

- i. **Unemployment**: Lagos has a high rate of unemployment, particularly among youth and women. The lack of employment opportunities reduces the ability of individuals to access basic necessities such as food, housing, and healthcare.
- ii. **Informal Economy:** The informal economy in Lagos is significant, with a large number of individuals engaged in activities such as street vending, petty trading, and artisanal activities. These activities are often low-paying and lack job security, leading to poverty.
- iii. **Poor Access to Basic Services:** Access to essential services including medical care, educational opportunities, and housing is a problem for many Lagos citizens. This reduces their ability to improve their livelihoods and escape poverty.

iv. **High Cost of Living:** Lagos is one of the most expensive cities in Nigeria, with high costs of housing, transportation, and food. This makes it difficult for low-income earners to make ends meet.

The Lagos State government has implemented several poverty reduction programs aimed at addressing these challenges. These include:

a. **Employment Programs:** Startups and small-scale businesses can receive cash from the Lagos State Employment Trust Fund. creating employment opportunities for individuals. The government has also implemented programs to promote vocational training and skills development.

b. **Social Services:** The Lagos Through the development of basic services like healthcare and education, the state government has increased a connection to these services and rehabilitation of primary healthcare centres and schools.

c. **Housing:** The Lagos Affordable Accommodation Project seeks to offer low-income earners in the city inexpensive housing. The government has also implemented programs to improve access to mortgage financing for individuals.

d. **Social Safety Nets:** The Lagos State government has implemented social safety net programs such as the Lagos State Social Protection Policy and the Lagos State Conditional Cash Transfer Program to provide support to vulnerable individuals and households.

Altogether, poverty in Lagos remains a significant challenge, but the Lagos State government is taking steps to address the issue through poverty reduction programs and social safety nets. More needs to be done to ensure that these programs reach the most vulnerable and marginalized individuals in the city.



#### 7. Promote social integration and support disadvantaged groups

Indicator 10: Poor households

**Support to Disadvantaged Groups:** The population of Poor Women-Headed Households has reduced. This suggests improved access to housing and infrastructure by women. The Central Government is also equipping public schools and rural infrastructure for the benefit of disadvantaged Groups.

**Gender Equality:** There is an overall improvement in the gender balance. A national awareness drive is on to develop literacy programs for women and the girl-child.

## 8. Promote gender equality in human settlements development

indicator 11: female-male gaps

1993 data	female	male	1993 female- male gap	
Primary school enrolment ratio	43.7%	56.3%	12.6%	%
Secondary school enrolment ratio	45.9%	54.1%	8.2%	%
Tertiary school enrolment ratio	34.5%	65.5%	31.0%	%
Adult literacy rate	12.4%	15.3%	2.9%	%
Life expectancy at birth	55.0	51.5	3.5	years
Under-five mortality	52.50%	47.50%	5.00%	%
Unemployment	46.60%	53.40%	6.80%	%
number of elected or nominated	1	46	45	/10,000 population

city and country levels 1998 data			1998 female-	
1996 Gata	female	male	male gap	
Primary school enrolment ratio Secondary school enrolment ratio Tertiary school enrolment ratio	44.6% 46.3% 37.5%	55.4% 53.7% 62.5%	10.8% 7.4% 25.0%	% % %
Adult literacy rate	13.1%	17.2%	4.1%	%
Life expectancy at birth	55.50	52.00	- 3.50	years
Under-five mortality	51.40%	48.60%	-2.80%	%
Unemployment	38.50%	48.70%	10.20%	%
number of elected or nominated	3.0	44.0	41.0	/10,000 population
councillor at the local level per 10,000				
What measures have been undertaken to rec	luce the female-r	nale gaps ?		
At the City and Co				a second s
with a lot of attenti	1			
and deprivation su				
faced by the fema				
prolonged military it has started corre		-		
military administra				
female population		and blue ugaine	a ano gin chilu u	

#### CHAPTER 3: ENVIRONMENTAL MANAGEMENT

**3.1 Population:** The daytime population of Lagos is about 22 million, although permanent residents are only about 12.8 million. About 54% of the population are males while the remaining 46% are females.



**Geographical Balance:** Metropolitan Lagos has facilities for the needs and benefit of diverse populations from urban centers, neighborhoods and peri-urban areas. This accounts for the high rural-urban migration being experienced. With a rich historical culture, Lagos is endowed with tourist attractions and historical monuments (Osayomi, et al., 2022).

**Water Supply and Demand**: Water supply is grossly inadequate for the needs of the City. The Federal and State Governments are presently looking into ways of solving the perennial problem of water shortage in the City of Lagos (Daramola, 2021). The demand-supply can be better managed.

**Water Supply**: The administration of Lagos State has made investments in the development and enhancement of the water supply infrastructure, including the building of new water treatment facilities and the renovation of the ones that already exist. Additionally, the authorities has started an undertaking to increase the capacity of the Adiyan Waterworks to provide more potable water to the city (Izuora, 2023).

## 10. Manage supply and demand for water in an effective manner

#### Indicator 13: Consumption of water

city level			
daily household consumption / person:	1993	1998	
in all settlements	30.00	45.00	liters/pers./day
in informal settlements	20.00	22.50	liters/pers./day
What measures have been taken for reducing a	vator consumpti	ion or increasin	a the water supply 2
-			g the water supply ?
s the demand-supply for water managed in an	effective manne	r?	
s the demand-supply for water managed in an There is the obvious	effective manne need to increas	r ? se the water su	oply - this is being done
s the demand-supply for water managed in an There is the obvious through the provision	effective manne need to increas	r ? se the water su astructure to la	pply - this is being done y more pipes, providing
s the demand-supply for water managed in an There is the obvious through the provision	effective manne need to increas	r ? se the water su astructure to la	oply - this is being done
through the provision more boreholes esp	effective manne need to increas n of enabling infr ecially in the info	r ? se the water su astructure to la prmal settlemer	pply - this is being done y more pipes, providing

#### Indicator 14: Median price of water

	1993	1998	
highest price	\$7.50	\$10.00	US\$/m3 (1000 liters)
lowest price	\$3.50	\$5.00	US\$/m3 (1000 liters)
median price in all settlements	\$5.00	\$7.50	US\$/m3 (1000 liters)
optional:			
median price in informal settlements	\$6.50	\$8.00	US\$/m3 (1000 liters)
These figures sug	igest higher pay fo	CONTRACTOR OF	of water in 1998 relative to
These figures sug	gest higher pay fo	r a unit volume	of water in 1998 relative to
		1993	
There has not being any official water pricing			
However, the	gradual devaluation	on of the local	currency (Naira)has compeled s charged for pottable water.

**Urban Pollution:** Urban pollution is on the increase because of improved economic and industrial activities. Environmental degradation poses a great challenge to the Government and people of Lagos.

3.2. **Climate Change:** In order to lessen the effects of climate change, quick action is needed. Lagos is susceptible to climate change effects like weather extremes and rising sea levels. To coordinate activities to address the effects of warming temperatures in the state, the Lagos State Government established the Lagos State Climate Change Committee (OLALEYE, AYODELE, & ARIYO, 2021). The government has also started initiatives to support efficiency in energy use and alternative sources of energy, like the installation of solar panels in public structures.

Lagos, Nigeria, and its inhabitants are suffering significantly as a result of rising temperatures. The city is susceptible to the impacts of climate change, including increased temperatures, increasing sea levels, rainstorms, and soil erosion. The following are some consequences of global warming in Lagos:

- i. **Flooding:** Lagos experiences frequent flooding, particularly during the rainy season. Climate change has worsened this problem, with more intense and frequent rainfall events leading to flash floods that inundate communities and disrupt economic activities.
- ii. **Sea-Level Rise:** Being a city on the coast, Lagos is susceptible to the effects of rising sea levels brought on by changes in the climate. The waterfront erosion in the city could get worse as a result of increasing levels of water which could affect infrastructure and displace residents.
- iii. **Heatwaves**: Lagos is one of the hottest cities in Nigeria, with temperatures often exceeding 30 degrees Celsius. Climate change is expected to increase temperatures, leading to more frequent and severe heat waves that could have significant health impacts on residents.
- iv. **Food Insecurity:** Climate change is affecting agricultural production in Lagos and other parts of Nigeria. Droughts, floods, and other extreme weather events are reducing crop yields and affecting food security.
  - The authorities are putting into action a number of steps to combat the impacts of warmer temperatures in Lagos, including:
- i. **Flood Control Measures:** The Lagos State government has implemented various flood control measures, including dredging of waterways, construction of drainage systems, and the building of flood retention ponds.
- ii. **Climate-Smart Agriculture:** The Lagos State government is promoting climate-smart agriculture practices that are adapted to the changing climate. These include the use of drought-resistant crops, irrigation, and soil conservation techniques.
- iii. **Renewable Energy:** To lower emission levels of greenhouse gases and lessen the consequences of environmental degradation, the Lagos State government is supporting the usage of energy from renewable sources like wind and solar power.
- iv. **Awareness as well as Education**: The Lagos State government is raising awareness and teaching locals about the consequences of global warming and what they might be able to do about it to adapt to the changing climate and mitigate its impacts.

In general, Lagos is significantly impacted by worldwide warming, but the government is taking steps to address the issue through various initiatives and measures. To make the city robust to the consequences of the changing climate, additional work must be undertaken in order to continue to thrive in a changing climate.

**3.3 Urbanisation:** Lagos City's fast urbanisation has resulted in the growth of squatters and unofficial colonies, which lack basic services and infrastructure. The authorities of Lagos State have started initiatives to address the housing deficit in the city, such as the Lagos Affordable Housing Project, which aims to provide affordable housing to low-income earners (FIELD STUDY OF THE WORLD, 2020).

Broadly, In order to be environmentally friendly, Lagos must strike an acceptable compromise between improvement in society, economic expansion, and preservation of the environment. In order to tackle the issues the city is facing, the Lagos State government has taken some action, but more needs to be done to ensure that the growth of Lagos is sustainable and benefits all its citizens.

#### Urbanisation in Lagos

Urbanisation in Lagos has been rapid and significant, with the city experiencing one of the highest rates of urbanisation in Africa. One of the biggest metropolitan areas in the entire globe, the population of this city increased from a little more than one million in 1950 to over 20 million in 2021 (Koko, Yue, Abubakar, Hamed, & Alabsi, 2021). This rapid growth has led to several challenges and opportunities for the city.

One of the challenges of urbanisation in Lagos is the strain on infrastructure and services. The city's rapid growth has outpaced the development of infrastructure, leading to congestion, traffic, and inadequate housing. Numerous locals are currently in informal neighborhoods where they have restricted access to necessities like running water, power, and sewage.

Another challenge of urbanisation in Lagos is the impact on the environment. The rapid expansion of the city has led to deforestation, soil erosion, and pollution of the air, water, and land. The city's open spaces and green areas have also been significantly reduced, leading to a loss of biodiversity and ecosystem services.

However, urbanisation in Lagos has also presented several opportunities, including economic growth and job creation. The city has a vibrant and diverse economy, with opportunities in various sectors such as finance, trade, and services. The city's port is also a major hub for trade and commerce in West Africa.

**Challenges of Urbanisation:** To address the challenges of urbanisation in Lagos, the government has implemented various initiatives, including:

Infrastructure Development: The administration of Lagos State is making investments in the construction of construction projects including roads, bridges, and public transportation mechanisms. to ease congestion and improve mobility.

ii. **Housing Development**: The government is also promoting the development of affordable housing to address the housing deficit in the city and improve living conditions for residents.

iii. **Environmental Sustainability:** The Lagos State government is implementing initiatives to promote environmental sustainability, including waste management, tree planting, and renewable energy.

iv. **Urban Planning:** The Lagos State government is developing urban planning strategies to guide the growth of the city and ensure that it is sustainable and resilient.

Altogether, urbanisation in Lagos presents several challenges and opportunities. The government is taking steps to address the challenges and harness the opportunities of urbanisation to ensure that the city is sustainable, livable, and prosperous for its residents. Figures below are the data from the 'Istanbul+5' for the United Nations (UN-Habitat) on how to Reduce Urban Pollution, Waste-Water Treated, and Solid Waste Disposal in Lagos.

## 11. Reduce urban pollution

Indicator 15: Air pollution

city level	19	93	19	98
	number of days excee-ding WHO standards during the year	average annual concentration (micro g / m3)	number of days excee-ding WHO standards during the year	average annual concentration (micro g / m3)
Sulfur dioxide (SO2)	NAV	NAV	NAV	NAV
Nitrogen dioxide (NO2)	NAV	NAV	NAV	NAV
Ozone (O3)	NAV	NAV	NAV	NAV
Carbon monoxide (CO)	NAV	NAV	NAV	NAV
Lead (Pb)	NAV	NAV	NAV	NAV
WHO standards:	Averaging time	WHO Guide	lines value	
Sulfur dioxide (SO2)	24 hours	125	micro g / m3	
Nitrogen dioxide (NO2)	1 year 1 hour	40 200	micro g / m3 micro g / m3	
Ozone (O3)	8 hours	120	micro g / m3	
Carbon monoxide (CO)	8 hours	10,000	micro g / m3	
Lead (Pb)	<u>1 year</u>	0.5	micro g / m3	

#### Indicator 16: Wastewater treated

city level		1993	1998	
		NAV	NAV	% of wastewater
	results should	l include prim	ary, secondary	and tertiary treatments
What do these resu	ts suggest in terms of	quality of life fo	r the population ?	
What measures hav	e been undertaken to	correct the tren	id ?	
	The data requir	ed is not availal	ble. However,it is a	apparent that there is increase
	in the water pol	lution due to ca	relessness and ur	ncontrolled industrial activity.
	No measures h	ave been taker	so far, but the site	uation is now being addressed
	by the relevant	authorities.		
	199. 			

#### Indicator 17: solid waste disposal

	<b>1993</b> % of solid wastes	<b>1998</b> % of solid wastes	
Sanitary landfill		NAV	
Incinerated (in incineration plants)	NAV	NAV	
Open dump	NAV	NAV	
	NAV	NAV	
Burned (openly)	NAV	NAV	
other	NAV	NAV	
TOTAL	NAV	NAV	
A shocking revela	tion of data situ	ation reveals little	on the environment ? or no attention at updating sposal. The only hope is in the
A shocking revela	tion of data situ on the situatior	ation reveals little n of solid waste d	or no attention at updating
A shocking revela statistical data promise of updating the record by the	tion of data situ on the situation relevant agenc	ation reveals little n of solid waste d ies	or no attention at updating
A shocking revela statistical data promise of updating the record by the Waste manage	tion of data situ on the situation relevant agence ement and recy	ation reveals little n of solid waste d ies cling is a sure so	or no attention at updating sposal. The only hope is in the
A shocking revela statistical data promise of updating the record by the Waste manage tion. The new de	tion of data situ on the situation relevant agence ement and recy emocratic dispe	ation reveals little n of solid waste d ies cling is a sure so ensation in the co	or no attention at updating sposal. The only hope is in the urce of environmental conserva-
statistical data promise of updating the record by the Waste manage tion. The new de fo	tion of data situ on the situation relevant agence ement and recy emocratic dispe- r addressing is	ation reveals little n of solid waste d ies cling is a sure so ensation in the co sues of importance	or no attention at updating sposal. The only hope is in the urce of environmental conserva- untry now opens up a lot of hopes

**Disaster Management:** A Federal Environmental Protection Agency (FEPA) is in place, and a Federal Ministry of the Environment is also working to establish government policy on the issue of the Environment and check possible threat to habitable life. Building Codes and regulations are also being reviewed (Yahaya, Bello, & Mohammed, 2021).

city and country l	evels		
In the city or the countr	y, are there:	1993	1998
a) building codes based or	n hazard and vulnerability assessment?	yes	yes
b) hazard mapping ?		no	no
c) disaster insurances	for public and private buildings ?	yes	yes
Are disaster insura	nces compulsory for public buildings ?	yes	ves
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a	vention and mitigation	on ?
	ns have been undertaken in terms of disaster pre	vention and mitigation	on ? in place ?
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a	vention and mitigation are the mechanisms include geographical	in place ? informa-
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a Measures of disaster prevention and mitigation in	vention and mitigation re the mechanisms include geographical r large scale ecologi	on ? in place ? informa- cal disasters
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a Measures of disaster prevention and mitigation in tion studies to determine the possibility of any	vention and mitigation are the mechanisms include geographical relarge scale ecologi eria has not experie	on ? in place ? informa- cal disasters nced any large
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a Measures of disaster prevention and mitigation in tion studies to determine the possibility of any in the near or forseeable future. However, Nig	vention and mitigation are the mechanisms include geographical r large scale ecologi eria has not experien vorst threat so far h	on ? in place ? informa- cal disasters nced any large as been cases
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a Measures of disaster prevention and mitigation in tion studies to determine the possibility of any in the near or forseeable future. However, Nig scale ecological disaster in recent past. The	vention and mitigation are the mechanisms include geographical relarge scale ecologic eria has not experien vorst threat so far h ms of flooding, erosi	n ? in place ? informa- cal disasters nced any large as been cases on and man-
	ns have been undertaken in terms of disaster pre aster response effective at the city level ? What a Measures of disaster prevention and mitigation in tion studies to determine the possibility of any in the near or forseeable future. However, Nig scale ecological disaster in recent past. The of earth tremour and other seasonal problem	vention and mitigation in the mechanisms include geographical rege scale ecologic eria has not experien worst threat so far h ms of flooding, erosic sh burning among ot	n ? in place ? informa- cal disasters nced any large as been cases on and man- hers.

**Transports**: Noticeable increase in users of private cars, motorcycle, train, mini-bus, walking and other means. A reduction is noticed in percentage of bus transport due to improved taste and lifestyle.

## 13. Promote effective and environmentally sound transportation system

#### Indicator 18: travel time

city level		1993	1998	
av	erage travel time	90	60	in minutes for a one-way trip
What do these changes	s suggest in terms of qu	uality of life for the	e population ?	
What policies have bee	n undertaken in order to	o make the trans	portation syste	em more effective?
	These changes sug	ggest improved q	uality of life for	r the population
	To make transporta	tion system mor	e effective, the	ere is the introduction of
	government assiste	ed mass-transit s	ervices. Thes	e include the provision of
	bus transport service	ces in the city as	well as on the	long distance (inter-city).
	Other policies inclu	de the phasing o	ut of the vehic	les that do not conform with
	road-worthy standa	rd tests. The org	anised private	sector is also involved in the
	provision of 'OKADA	A' - (a public tran	sport service	by means of a motorcycle)
				s and motorised canoes.

city level				
% of work trips undert	aken by:	1993	1998	If details are not available, please provide the sub-total for each main category.
1. Private motorised:	Private cars	NAV	NAV	% of all work trips
	Motorcycle	NAV	NAV	% of all work trips
	sub-total	45.00%	51.00%	% of all work trips
2. Train and tram:	Train	NAV	NAV	% of all work trips
	Tram	NAV	NAV	% of all work trips
	sub-total	3.00%	2.50%	% of all work trips
3. Bus and minibus:	Bus	NAV	NAV	% of all work trips
	Minibus	NAV	NAV	% of all work trips
	sub-total	50.00%	45.50%	% of all work trips
4. Non-motorised:	bicycle	NAV	NAV	% of all work trips
	walking	NAV	NAV	% of all work trips
	others	NAV	NAV	% of all work trips
	sub-total	2.00%	1.00%	% of all work trips
	TOTAL	100.00%	100.00%	should be equal to 100%

#### indicator 19: transport modes

**Local Environmental Planning:** The Lagos State Government is working with the World Bank, the United Nations Environment Program (UNEP), and the Federal Government to sanitize environmental management.

## 14. Support mechanisms to prepare and implement local environmental plans and local Agenda 21 initiatives

#### qualitative data 4: local environmental plans

country level		
1. How many cities ha	we established long-term strategic planning initiatives	
for sustainable develo	pment, involving key partners?	4
2. Is this process insti	tutionalized at the national level and/or has there been any legislativ	e change
to support cities to en city level	gage in sustainable development planning processes?	yes
3. Has the city establis	shed a long-term strategic planning intiative for sustainable	
development, involving	g key partners?	yes
4. Is the city implemer	nting local environmental action plans involving key partners ?	yes
Please describe the n	najor initiatives :	
	One major initiative of the City is the development of waste dis	posal system.
	This was done through the state Ministry of the Environm	ent. Although the
	adopted is not fool-proof, the initiative was well-commende	ed by the population
	Another initiative was the Bar-Beach sand bag project. Key	partners were involved
	to keep the rising sea levels away from the dwelling places an	d commercial centres
	This too is not without its problems, however, long term st	rategies are being
	worked out.	

#### CHAPTER 4: ECONOMIC DEVELOPMENT

Micro-Enterprises and Small Businesses: More trustworthiness and predictability in government promotes startups and small businesses.



**Informal Sector:** Informal sector of the economy is developing – because of improved governance and the provision of services and infrastructure.

**Productivity:** There is an improvement in productivity. This is because of credibility in the democratic government and increased involvement in the economy by multinationals.

**Employment:** Equal employment opportunities exist for both men and women in the private and public sectors. **Public-Private Partnerships:** Public-Private Partnership alliances are increasing. There are a number of initiatives to undertake joint programs of development in various parts of the Country.

# 16. Encourage public-private sector partnership and stimulate productive employment opportunities

### qualitative data 5: public-private partnerships

1. Have some majo	r public enterprises involving the delivery of service	es in cities	
established partner	ships with private firms during the last five years a	t the city level?	yes
		How many ?	> 10
2. Have some majo	r public enterprises involving the delivery of service	es in cities established	
partnerships with pi	rivate firms during the last five years at the country	level?	yes
		How many ?	>10
Have they been effe of transparency, eff	partnership become a more common practice in t active ? Have they offered a greater flexibility in the iciency and accountability in their operation ?	he last five years ?	
Have they been effe of transparency, eff	ective ? Have they offered a greater flexibility in the iciency and accountability in their operation ? / of services higher ?	he last five years ? management and higher de	gree
Have they been effe of transparency, eff	ective ? Have they offered a greater flexibility in the iciency and accountability in their operation ? of services higher ? Public-private partnership has improved co	he last five years ? management and higher de onsiderably in the last five ye	gree ears.
Have they been effe of transparency, eff	ective ? Have they offered a greater flexibility in the iciency and accountability in their operation ? / of services higher ?	he last five years ? management and higher de onsiderably in the last five ye ater flexibility in the manage	gree ars. ment and
Have they been effe of transparency, eff	ective ? Have they offered a greater flexibility in the iciency and accountability in their operation ? / of services higher ? Public-private partnership has improved co They have been effective. They offer a greater	he last five years ? management and higher de onsiderably in the last five ye ater flexibility in the manage nd accountability - especial	egree ears. ment and ly in the
Have they been effe of transparency, eff	ective ? Have they offered a greater flexibility in the iciency and accountability in their operation ? y of services higher ? Public-private partnership has improved co They have been effective. They offer a great higher degree of transparency, efficiency a	he last five years ? management and higher de onsiderably in the last five ye ater flexibility in the manager ind accountability - especial proved respect for rules and	gree ears. ment and ly in the I regulations

city level		1993	1998	
	City product	NAV	NAV	per person
Gr	oss National Product	\$80	NAV	per person
Which method wa	s used for the calcula	tion of the city	/ product (see	definitions) ?
	method A	yes / no		
	method B	yes / no	1	
What do this trend s	uggest in terms of urban	economic deve	elopment ?	
Are cities economies	s growing more that natio		and the second	nds of city product with
Are cities economies	s growing more that natio		and the second	nds of city product with
Are cities economies	s growing more that natio	onal economies	? (compare trei	
Are cities economies	s growing more that national product). The urban econor	onal economies nic developmer	? (compare tren	
Are cities economies	s growing more that national product). The urban econor In spite of the la	onal economies nic developmer ack of specific fi	? (compare tren nt is very dynam igures, it is appa	c;
Are cities economies	s growing more that national product). The urban econor In spite of the la	nal economies nic developmer ack of specific fi r a healthier eco	? (compare tren nt is very dynam igures, it is appa	c; rent that the trends of economic an the National economy for the
	s growing more that national product). The urban econor In spite of the la	nal economies nic developmer ack of specific fi r a healthier eco	? (compare tree nt is very dynam igures, it is appa pnomic growth th	c; rent that the trends of economic an the National economy for the
Are cities economies	s growing more that national product). The urban econor In spite of the la	nal economies nic developmer ack of specific fi r a healthier eco	? (compare tree nt is very dynam igures, it is appa pnomic growth th	c; rent that the trends of economic an the National economy for the
Are cities economies	s growing more that national product). The urban econor In spite of the la	nal economies nic developmer ack of specific fi r a healthier eco	? (compare tree nt is very dynam igures, it is appa pnomic growth th	c; rent that the trends of economic an the National economy for the

## indicator 22: unemployment

city and country levels	1993	1998	
% of total unemployed that are me	n 2.1%	2.8%	in the total workforce
% of total unemployed that are wome	n 2.6%	3.7%	in the total workforce
% unemployed men and women	n 2.3%	3.5%	in the total workforce
what are the impacts of unemployment on	the urban economy a	ind social devi	elopment ?
			elopment ?
What measures have been undertaken to		•	
There is improv	curb negative trends ? o note that the reference red employment oppor	e years here tunities for me	are 1996 and 2000. en and women
What measures have been undertaken to on It is important to There is improv	curb negative trends ? o note that the reference red employment oppor	e years here tunities for me	are 1996 and 2000.
What measures have been undertaken to o It is important to There is improv Unemployment	curb negative trends ? o note that the reference red employment oppor brings a downturn on	e years here tunities for me the urban eco	are 1996 and 2000. en and women
What measures have been undertaken to on It is important to There is improving Unemployment These manifest	curb negative trends ? o note that the reference red employment oppor brings a downturn on i in high crime rates, g	ce years here tunities for me the urban eco angstarism, v	are 1996 and 2000. en and women nomy and social development
What measures have been undertaken to on It is important to There is improvied Unemployment These manifest The seriousnes	curb negative trends ? o note that the reference red employment oppor brings a downturn on in high crime rates, g is of the Federal Gover	te years here tunities for me the urban eco angstarism, v rnment on the	are 1996 and 2000. en and women nomy and social development iolence and insecurity.
What measures have been undertaken to on It is important to There is improving Unemployment These manifest The seriousnes is yielding some	curb negative trends ? o note that the reference red employment oppor brings a downturn on in high crime rates, g is of the Federal Gover e useful dividents. Con	e years here tunities for me the urban eco angstarism, v rnment on the nmunity based	are 1996 and 2000. en and women nomy and social development iolence and insecurity. Poverty Alleviation programme

## 17. Promote decentralisation and strengthen local authorities

#### Qualitative data 6: level of decentralization

city and country levels			
1. Can higher levels of government	(national, sta	te/provincial):	
a. Close the local government ?	yes	erase inappropriate	
b. Remove councillors from office?	yes	erase inappropriate	
2. Can the local government, without	ut permission	from higher governn	nents:
a. Set local tax levels ?		some	erase inappropriate
b. Set user charges for services ?		some	erase inappropriate
c. Borrow funds ?		some	erase inappropriate
d. Choose contractors for projects ?		some	erase inappropriate
	yes	erase inappropriate	
Have major responsibilities, policy manager			
been decentralised at the local level ? If not			place ?
Do you consider that decentralisation has in			
		National governments are	
	tent. There is the	e legal provision that the d	ecentralisation must
conform with.			
		mproved the level of gove	
		dividuals who will do every	
trend, there is no	o doubt tht the p	opulace are faring better r	10W.

#### **CHAPTER 5: GOVERNANCE**

**Decentralization/Strengthening of Local Authorities:** At various levels of governance, the concept of separation of powers is emphasised. This allows the ordinary citizen to be heard and enhances overall development and credibility in government.



**Participation and Civic Engagement:** Local participation and Civic Engagement have improved tremendously. This enhances a better image, foreign interest, and positive contribution to the economic affairs of the Country.

**Transparency:** Transparency is enhanced. This is because of the checks incorporated in the Country's democratic institution.

# 19. Ensure transparent, accountable and efficient governance of towns, cities and metropolitan areas

#### Qualitative data 8: transparency and accountability

At the loval go	overnment level, are there:	1996	2000
a) regular indepe	ndent auditing of municipal accounts ?	no	yes
o) published cont	tracts and tenders for municipal services ?	no	yes
c) sanctions agai	inst faults of civil servants ?	yes	yes
d) laws on disc	losure of potential conflicts of interest ?	yes	yes
	a any progress in improving governance ? s have been undertaken in this area ? There has been a remarkable progress in imp		
	s have been undertaken in this area ?		arency,
	s have been undertaken in this area ? There has been a remarkable progress in imp	ter openness, transpa	
	s have been undertaken in this area ? There has been a remarkable progress in imp Measures undertaken in this area include grea	ter openness, transpa	
	s have been undertaken in this area ? There has been a remarkable progress in imp Measures undertaken in this area include grea accountability, and recently the passing of the	ter openness, transpa Anti-Corruption Bill by	the
	s have been undertaken in this area ? There has been a remarkable progress in imp Measures undertaken in this area include grea accountability, and recently the passing of the National Assembly.	ter openness, transpa Anti-Corruption Bill by ed participation in 'self-	the

Accountability: There is improved accountability. This is good for the people and enhances the overall image of the Country.

**Efficiency:** There is improved efficiency in the operations and governance of the City. This is because as the economic and industrial capital, it is the model of the ideals of the Country.

city level		1993	1998	
local government revenue local government expenditures		Subscratter Barrison Street	\$30.66m \$28.50m	in \$ US (3 years average) in \$ US (3 years average)
revenue less expenditures		\$1.61m	\$2.16m	in \$ US (3 years average)
	These figures sug In spite of the ec			ny; magement, the Local Government
		15	ssion and misma	inagement, the Local Government
IS SUI	in a position to brea These tre	2007 A 100 A 10	nto greater invest	tment by the local authorities;
	Although it is difficult to measure the impact on the ordinary dweller in the state			
			ich readily overst	

#### indicator 23: local government revenue and expenditures

## Chapter 6: International cooperation

#### 20. Enhance international cooperation and partnerships Qualitative data 9: engagement in international cooperation city and country levels 1996 2000 1. Is the country involved in international cooperation ? as receiver ? yes yes as donnor ? yes yes 2. For donor countries: what is the total amount provided to urban areas ? NAV NAV NAV NAV In how many countries? 3. For recipient countries and cities: what is the total amount received by the country? NAV NAV NAV what is the total amount received by the city? NAV 3. For cities: Is the city affiliated to one or more association of local authorities? yes yes Is the city involved in direct city to city cooperation? yes ves What do these figures suggest ? In which particular areas has international cooperation made progress (capacity-building, technology transfers, etc.) ? Although there are no specific figures, the new democratic experiment opens the country to new avenues of international cooperation, and credibility. This implies that greater international involvements will be experienced through thekey partners - in international cooperation. Progress in international cooperation includes capacity-building, technological transfers, grants-in-aid, among others.

Promote International Cooperation

#### III. CONCLUSION

Infrastructure growth and sustainable development are closely linked in Lagos, Nigeria. While the growth and progression of the city depend on the continued growth of the physical infrastructure, it must be done in a sustainable manner that does not compromise the environment or the well-being of future generations. The enhancement of infrastructure has received major funding from the Lagos State government and has taken steps to address environmental degradation and poverty. However, more needs to be done to ensure that the growth of Lagos is sustainable and benefits all its citizens.

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