

CYCLING MODEL TO CURB FUEL AND ECONOMIC CRISES IN AFRICA



PRESENTED BY:

DR. FRANZ U. ATARE

UNIVERSITY OF UYO - NIGERIA/CYCLING FEDERATION OF NIGERIA



OUTLINE

- INTRODUCTION
 - CARS VS BICYCLE
 - DEMAND FOR MOTORIZED TRANSPORT
 - FUEL CONSUMPTION
 - CYCLING MODEL
 - IMPLICATIONS
 - CONCLUSION
- 

INTRODUCTION

Motorized transport situation in major cities across Africa is nothing to cheer about.



Quelimane

&

Kampala

Examples of African cities where non-motorized transport system is promoted



SITUATION ANALYSIS IN NIGERIA

CARS/MOTOR CYCLES



- 400,000 CARS IMPORTED ANNUALLY
- 8 TRILLION (\$4.4bn)
- 304.23bn (\$633m) is used for importing motor cycles and tricycles
- 11.8m cars ply the road daily
- \$3bn is spent daily on fuel
- Average daily fuel consumption $5.66L * 365 = 371,862$ (\$774)

BICYCLE



- 8,712 IMPORTED ANNUALLY AS AT NOV 2021
- 0.065%
- 197.74m (\$4.2m)
<1000 ply the roads
- <100,000/annum (\$208)

DAILY DEMAND FOR MOTORIZED TRANSPORT

DEMAND

- 35.6M WORKERS
- 22.7M BASIC SCHOOL
- 5.4M SECONDARY
- 1.8M TERTIARY

65.5M

EXCLUDING 20M OUT OF SCHOOL PARTLY DUE
TO MOBILITY ISSUES

VEHICLES

➤ 11.8M

➤ EXCLUDING
MOTOR BIKES
AND TRICYCLES

FUEL CONSUMPTION & CYCLING MODEL

FUEL CONSUMPTION

- ▶ 66.8m/l of fuel consumed daily
- ▶ 11.8m cars
- ▶ 5.66l/car
- ▶ 65.5m persons uses 11.8m cars
- ▶ Average of 6 persons in a car
- ▶ 4.7trillion budget for fuel subsidy

CYCLING MODEL

- ▶ Provide bicycles for 32.75m (one Trillion from Subsidy)



- ▶ Fuel consumed will drop to 33.4m
- ▶ 32.75m will now use 5.9m vehicles



Implications

- ▶ REDUCED FUEL IMPORTATION
- ▶ REDUCED CAR IMPORTATION
- ▶ INCREASE BICYCLE IMPORT
- ▶ REDUCED FUEL SUBSIDY



VALUE CHAIN EFFECT

- ▶ Reduced transport cost
- ▶ Affordable means of transportation for out of school
- ▶ Reduced carbon emission from cars
- ▶ Create empowerment opportunities
- ▶ Improve health conditions for riders
- ▶ Reduced effect of poverty

Bicycle has the power of transforming our economy if government has the political will to initiate the required policies. (Borno State Government Intervention)



Lagos car free day to promote clean air (Sept 25, 2022)



Parked Cars





Call for Action

- **POLICY FOR HOUSEHOLD BICYCLE (COMPULORY OWNERSHIP)**
- **SUPPORT AND PROVIDE INCENTIVES TO BICYCLE INVESTMENT/PROMOTING COMPANIES**
- **REVERT FROM CAR LOANS TO BICYCLE LOANS**
- **MOVEMENT WITHIN SCHOOL CAMPUSES SHOULD BE BICYCLE BASES**
- **BICYCLE LANE SHOULD BE ESTABLISHED IN URBAN AREAS**
- **CAR FREE DAYS SHOULD BE SUSTAINED ACROSS AFRICA**
- **BICYCLE FESTIVAL/CARNIVAL**
- **AWARDS AND HONOURS FOR CONSISTENT USERS**



**THANK
YOU FOR
LISTENING**

APPRECIATION

- Higgins and Higgins
- National Bureau of Statistics
- National Bureau of Economic Research
- Federal Ministry of Education
- Nigeria University Commission
- Science Direct
- Cycling Federation of Nigeria
- NAPHER.SD
- TGI
- Federal Ministry of Transport