

# **CHALLENGES OF TRANSPORTATION IN LAGOS**

**By**  
**Olukayode Taiwo**  
**Deputy Director Safeguards**  
**Lagos Metropolitan Area Transport**  
**Authority (LAMATA)**

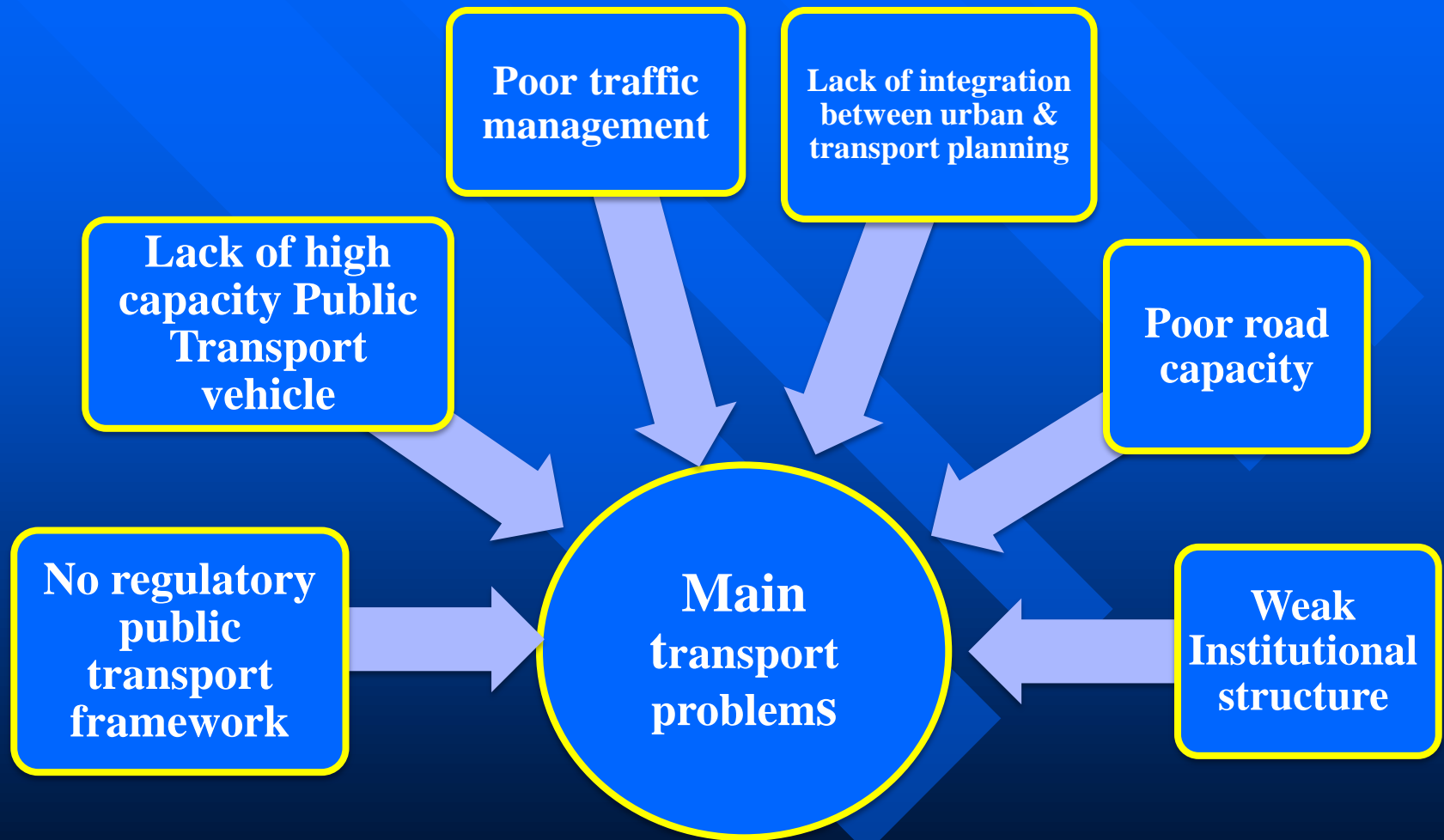
# Facts about Lagos State

- Population now stands at about 18 million inhabitants
- Smallest state in Nigeria with total area of 357,700 Hectares.
- Most populous city in Africa.
- Current estimated population growth rate is 6%.
- Hub of the nation's economic activities.
- 45% of nation's skilled manpower reside in the city.
- Houses the nation's principal commercial sea and airports.

# Transportation System in Lagos

- 7 million passenger movements per day.
- It is characterized by private cars, transit buses known as *Danfo*, *Molue* and Motor Cycle Taxis – *Okada*
- Lagos State's transportation sector produces almost 50% of Nigeria's greenhouse gas emission
- The railway system caters for only 8000 passengers per day
- Infrastructure facilities for non- motorized transport are limited

# Overview of transport problems in Lagos State



**The most evident symptoms are the notorious traffic jams**

# PREVALENT TRANSPORT SITUATION





# PREVALENT TRANSPORT SITUATION





# Images of Public Transport in Lagos

Danfo



Rail



Okada





# Public Transport Buses in Lagos





# BUS RAPID TRANSIT (BRT LITE)

- BRT Lite is a bilateral operations
- Low signalizations
- Less automation
- Residual traffic infringements
- Compromised headway
- To be graduated to BRT classic

# Basic features and attributes of Lagos BRT LITE

## RUNNING WAY

- About 60% dedicated running ways
- Mixed traffic
- Distinctive pavement treatment

## STATIONS

- Level boarding and alighting
- Branded consistent with appearance of BRT
- High-quality, attractive, functional amenities
- Designed to suit bus docking
- Boarding pen-holding for orderliness

# Basic features and attributes of Lagos BRT condct.

## VEHICLES

- Easy-to-board
- Wide door boarding and alighting
- Branded exteriors that are distinctive and consistent with appearance of station
- High capacity
- Pleasant interior for urban view



# Basic features and attributes of Lagos BRT condct.

## VEHICLES

- Easy-to-board
- Wide door boarding and alighting
- Branded exteriors that are distinctive and consistent with appearance of station
- High capacity
- Pleasant interior for urban view

# Segregation











Make your world

23 10:00

# Outcomes from LAMATA actions

- Reduction in urban disposable income in the declared road network from 30% to 20%
- Reduction in time spent on the road by 33% which means more quality time spent with family
- Reduction in vehicle operating cost as a result of more improved roads with cost past over to passengers
- More organized public transport in Metropolitan Lagos which has a major impact on travel time savings
- Reduction in Greenhouse gas by 13% in project areas
- Reduction in road accidents as a result of improvement in traffic management by 20%
- Gradual shift from *Okada* to better public transport modes as public transport improves



# Conclusions

- We now see more development projects completed with less problems as a result of the consultation process introduced by LAMATA
- More people are now spending quality time with their family and engaging in productive recreation activities as a result of less time being spent in congestion
- More civility on the buses
- We are now seeing less opposition from project affected groups as a result of the project resettlement plan put in place
- More operators are now spending less money on maintenance and hence passing the cost to public transport customers
- There is improvement in air quality resulting in less respiratory diseases in hospitals



# Train Operations

- Electric-powered Metro-style vehicles
  - Capacity 300 persons per vehicle (50 seated)
  - Multiple doors
  - 4 to 10 vehicles per train
- Frequent train service
  - Peak hour: 3 to 5 minute intervals
  - Off-peak: 10 to 15 minute intervals
- Fast service
  - Okokomaiko to Marina: 37 minutes

# Operations Projection

	2012	2020	2030	2040
Riders per Day	220,000	440,000	577,000	645,000
Wait times between trains during peak traffic (Minutes)	4.5	4.0	3.7	3.5
Wait times between trains during non-peak traffic (Minutes)	13.6	12.0	11.1	10.6
Total Cars per Train	4	7	8	9
Fleet Size (Passenger Cars)	78	152	203	229

# Lagos Rail Network Plan





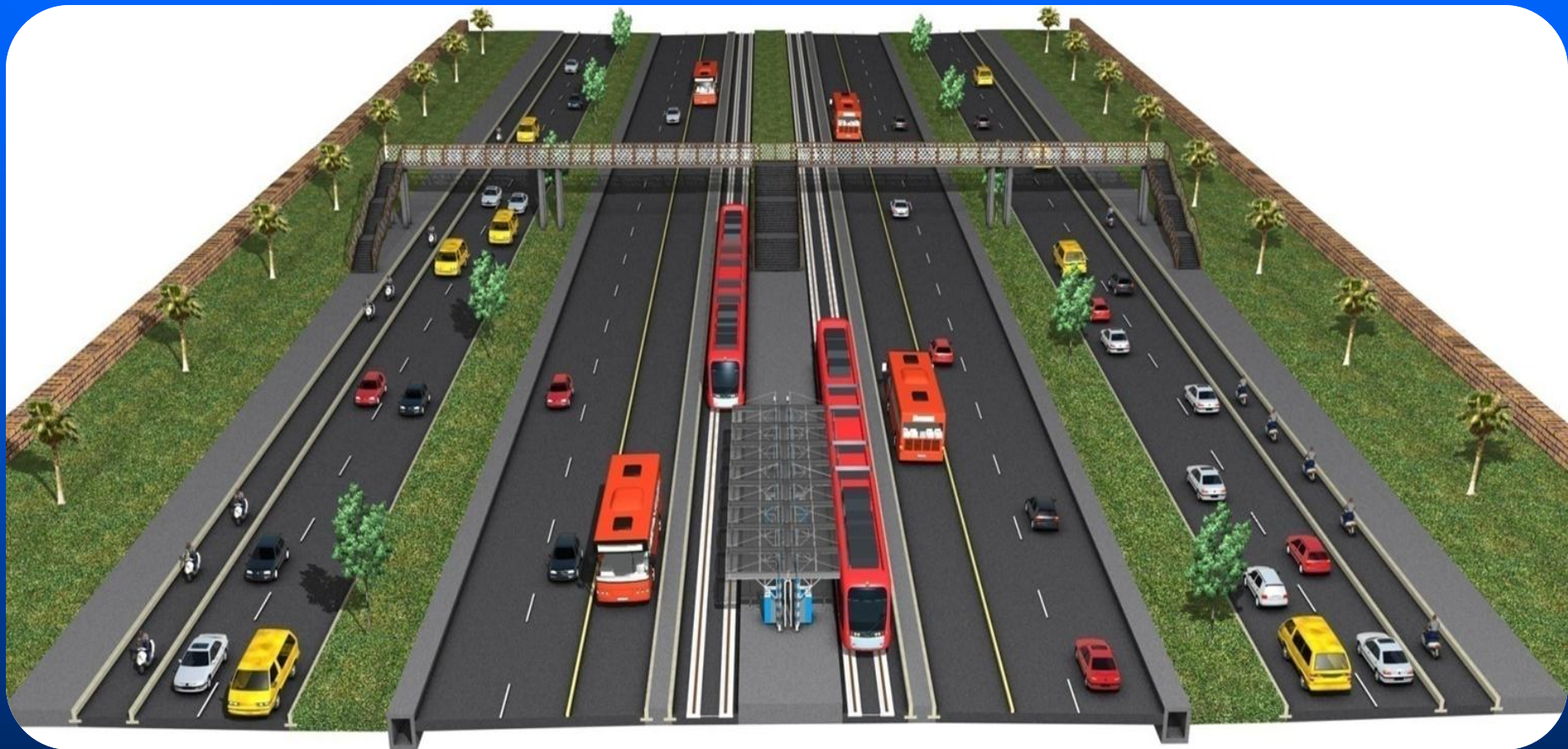










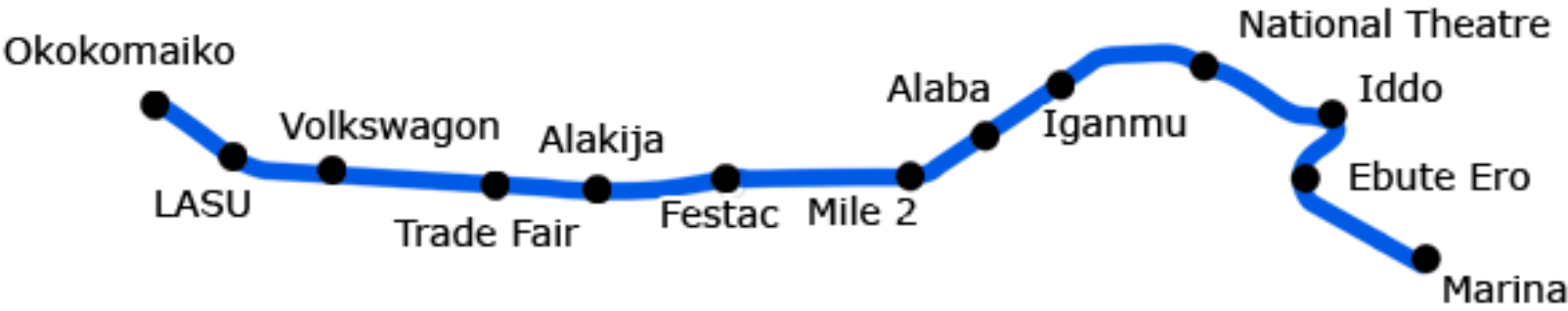




# Electric Multiple Unit



# Stations' locations of Blue Line



60769













# Conclusions

- We now see more development projects completed with less problems as a result of the consultation process introduced by LAMATA
- More people are now spending quality time with their family and engaging in productive recreation activities as a result of less time being spent in congestion
- More civility on the buses
- We are now seeing less opposition from project affected groups as a result of the project resettlement plan put in place
- More operators are now spending less money on maintenance and hence passing the cost to public transport customers
- There is improvement in air quality resulting in less respiratory diseases in hospitals

***THANK  
YOU***



...think transport