



# Green Transport Solutions for African Cities:

## A case study of Nairobi, Kenya

By:

- **Benedict Muyale**

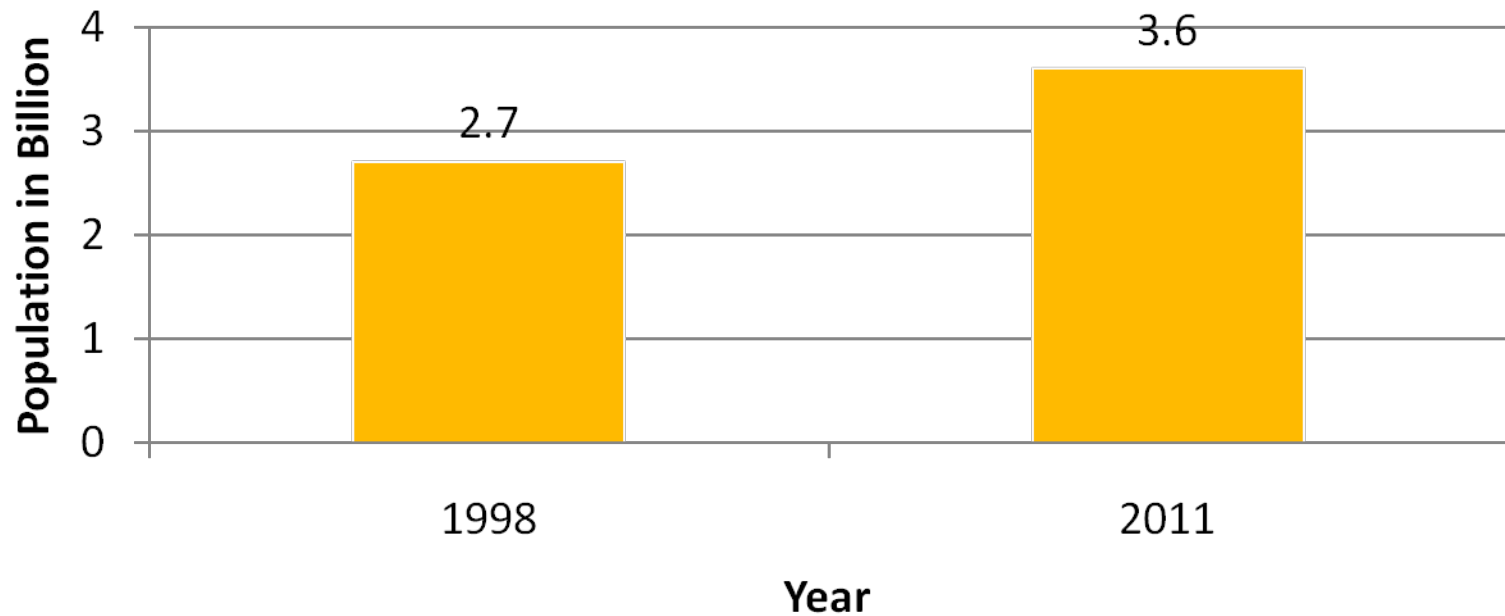
# Objective of the Study

- To assess current transport systems of Nairobi
- To review green transport solutions being taken by City Council of Nairobi
- To recommend alternative green transportation systems



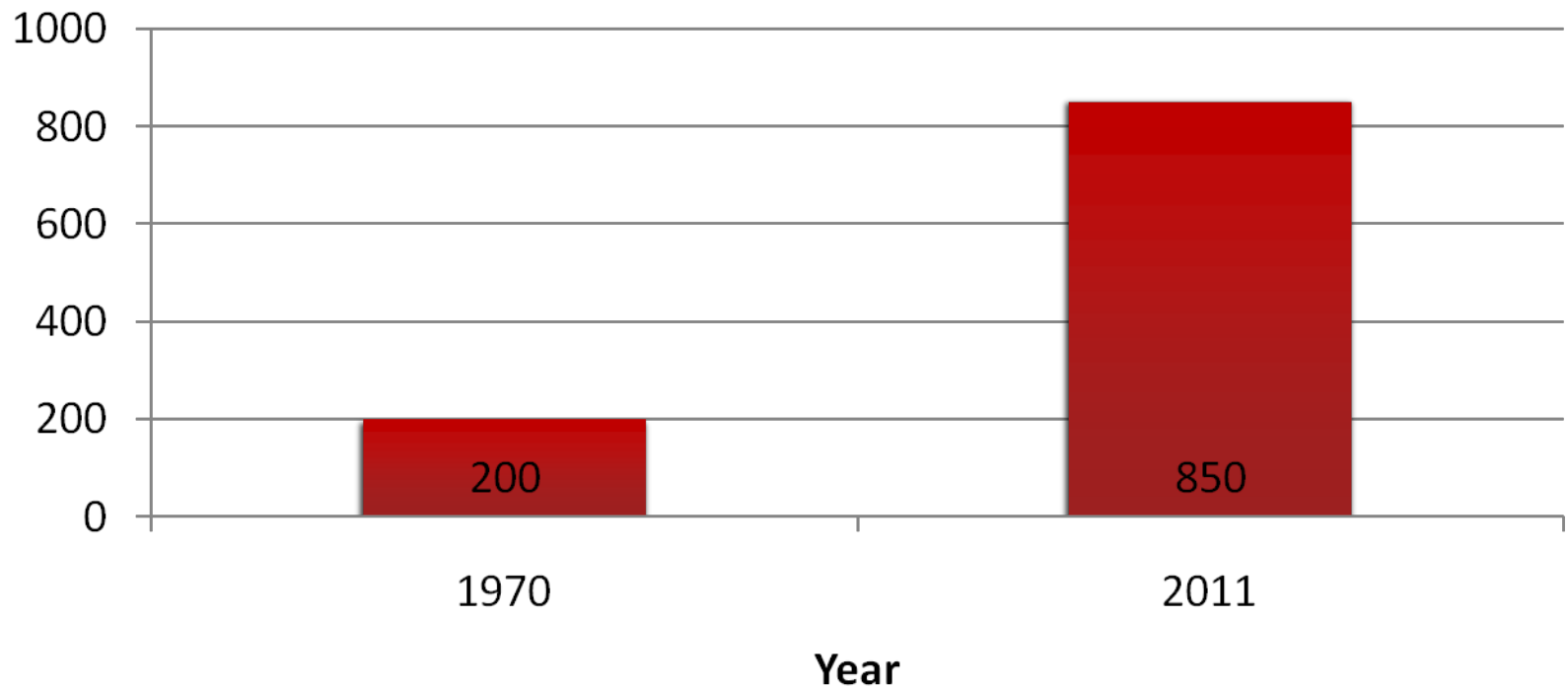
# Introduction

## ➤ Cities Challenge - Population



# Introduction Cont' d

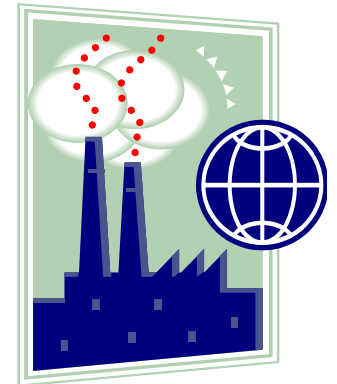
## ➤ Cities Challenge – Private Cars in Millions



# Introduction Cont' d

## ➤ Other Cities Challenge

- Prolific users of natural resources
- Generators of waste
- Carbon emissions e.g. 23% energy related CO<sub>2</sub> from transport



# Introduction Cont'd

## ➔ Location of Nairobi



# Nairobi Transport System

Transport Mode	Walking	Cycling	Private Car	Matatu / Mini-bus	Bus	Train	Institutional Buses	Other
Modal Split (%)	47	1.2	15.3	29	3.7	0.4	3.2	0.2



**Human Traffic congestion in Nairobi City**



**Overloaded Commuter train**

# Current Improvements on Nairobi Transport



**New expanded Thika road**





# Current Improvements on Nairobi Transport

## ➤ Light Train Systems

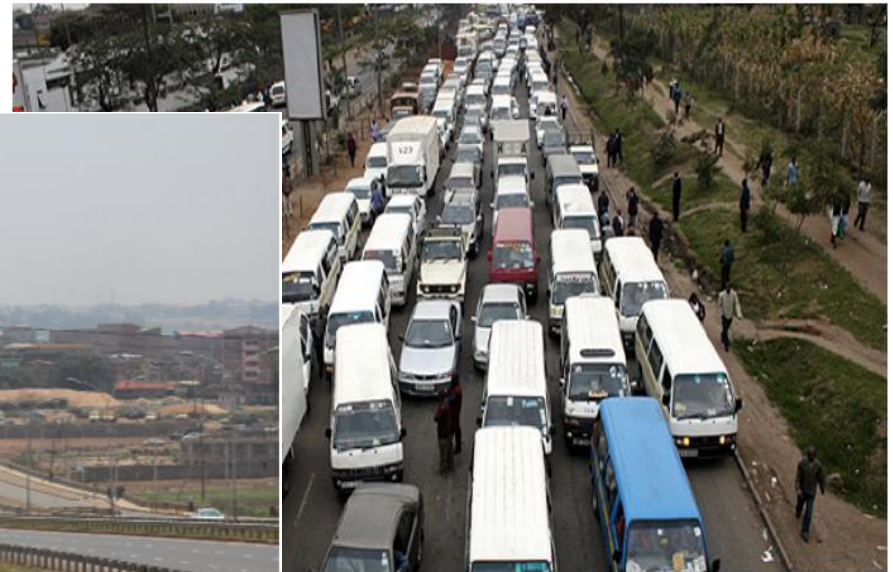
➤ New link to Syokimau

➤ Trains Serves 19,000 commuters daily



# Current Improvements on Nairobi Transport

## ➤ Non-Motorized Transport



# Green Transport Solutions for Nairobi

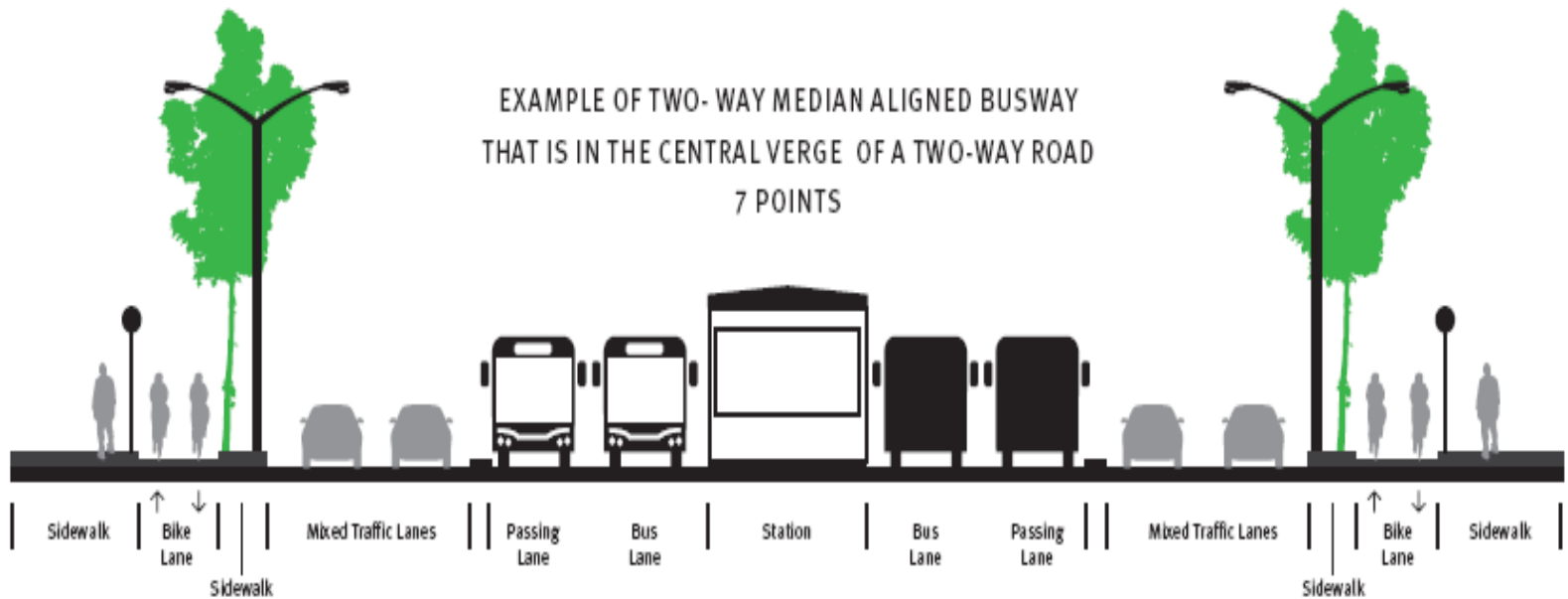
## ➤ Formulation & implementation of Policies that:-

- Phase out 14-seater *matatu*
- Promote integrated transport system
- Allow engine technology that conform to Euro III standards
- Lower vehicle emissions through use of cleaner fuels coupled with cleaner technology,
- Promote other policies & incentives to promote mass transit



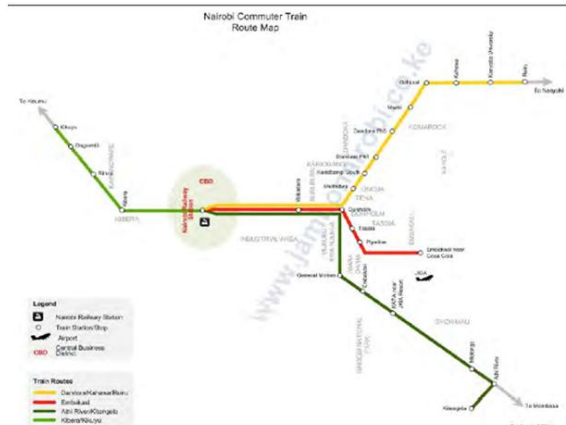
# Green Transport Solutions for Nairobi

## ➤ *Bus Rapid Transport System*



# Green Transport Solutions for Nairobi

## ➤ Integrated City Development Plan



- Routes**
- 25 (Baba Ndogo)
  - 42 (Dandora)
  - 29/30 (Mathare North)
  - 30 (Mathare North)
  - 6.9 (Eastleigh)
  - 46 (Huruma)
  - 14 (Kariobangi)
  - 28 (Kariobangi)
  - 32 (Dandora)
  - 17 (Kayole)
  - 26 (Korogocho)
  - 8B (Jericho)
  - 10 (Jericho)
  - 7 (California)

- Legend**
- Bus/Matatu Terminus
  - Bus/Matatu Stage
  - Airport
  - Central Business District

- Routes**
- 6 (Eastleigh)
  - 23 (Outer Ring)
  - 55 (Bunbura)
  - 36 (Dandora)
  - 17B (Kasarani)
  - 39 (Ruai)
  - 35/60 (Umaja)
  - 19/60 (Kayole)
  - 34/5 (Greenfield)
  - 33 (Embakasi)
  - 33 (Baraka)
  - 34 (JKIA)
  - 33 (Pipeline)
  - 71 (Likonj Rd)
  - 71 (Enterprise Rd)
  - 33 (Transami)
  - 33 (Mombasa Rd)
  - 33 (Utawata)



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# Green Transport Solutions for Nairobi

## ➤ *Improved Non-Motorized Transport (NMT) Infrastructure*



# Q & A



## **Contact:**

Green Sun Cities (GSC)  
P. O. Box 28808-00100, Nairobi Kenya  
[www.greensuncities.com](http://www.greensuncities.com)  
Email; [bmuyale@hotmail.com](mailto:bmuyale@hotmail.com)

**Thank you!!!**

