



# URBAN MOBILITY IN SEKONDI – TAKORADI SUSTAINABLE INNOVATIONS AND FUTURE VISION



ABRAHAM DANQUAH  
NOV 2019



Sekondi – Takoradi is 226km to the west of the Capital City, Accra







Sekondi-Takoradi

Fetish Priest Statue

Sekondi Rd

W Ofori Atta Rd

Sekondi TRAIN ST

Sekondi Harbour

Railway Line

New Takoradi

Takoradi

Takoradi Airport

Kokompe

Takoradi TRAIN ST

Takoradi Harbour

Transport Terminals



# Sekondi – Takoradi in Brief

- ▶ Western Regional Capital
- ▶ Twin City
- ▶ Population of 445,205
- ▶ Land area of 219 km<sup>2</sup>
- ▶ Largely residential spaces
- ▶ Industrial and harbor enclave
- ▶ Railway lines
- ▶ Airport for local flights
- ▶ 7 transport terminals
- ▶ 4 on street taxi stations
- ▶ Cycle lane on one arterial
- ▶ Oil and Gas discovered in Western Region



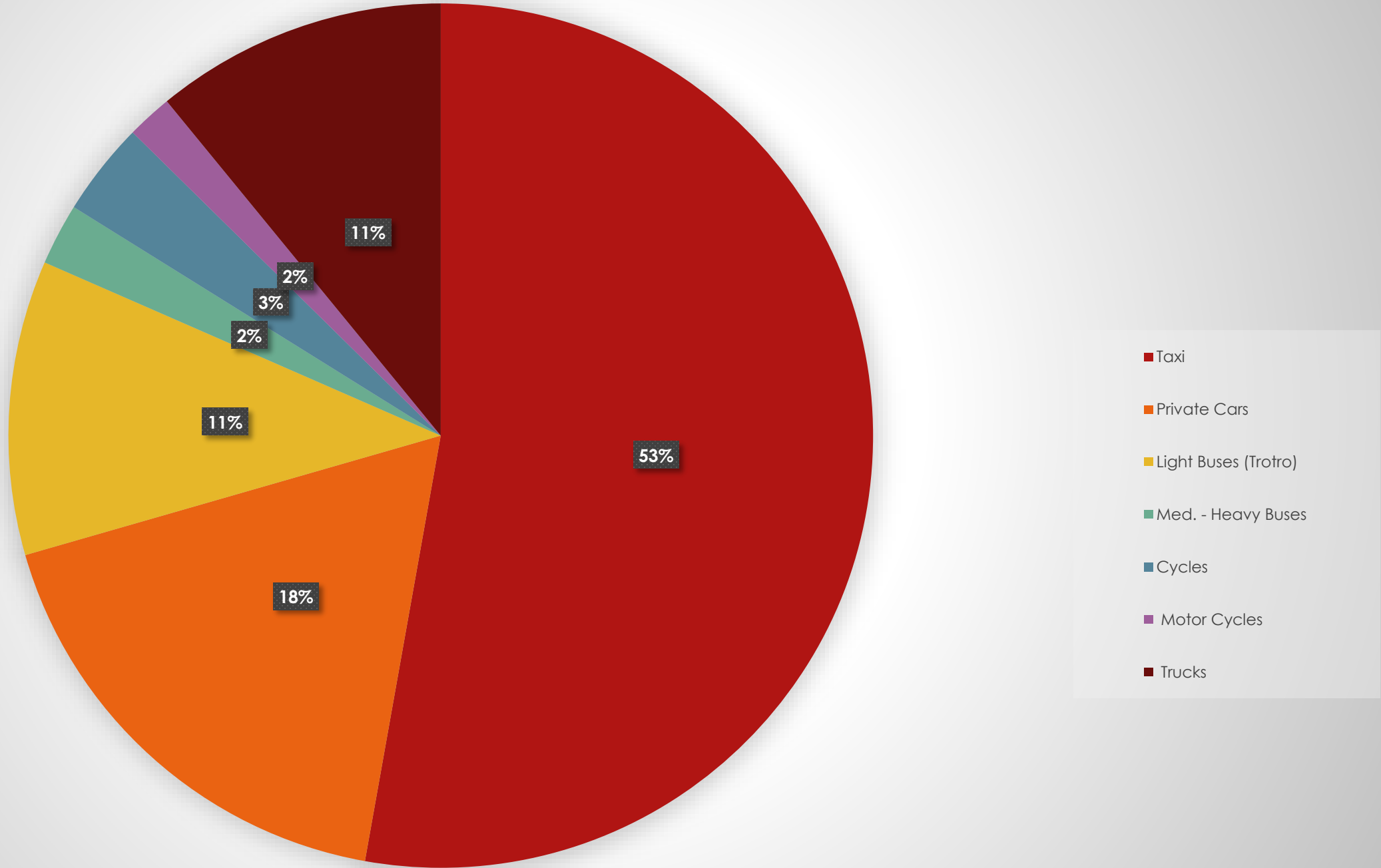


# Emissions in Ghana

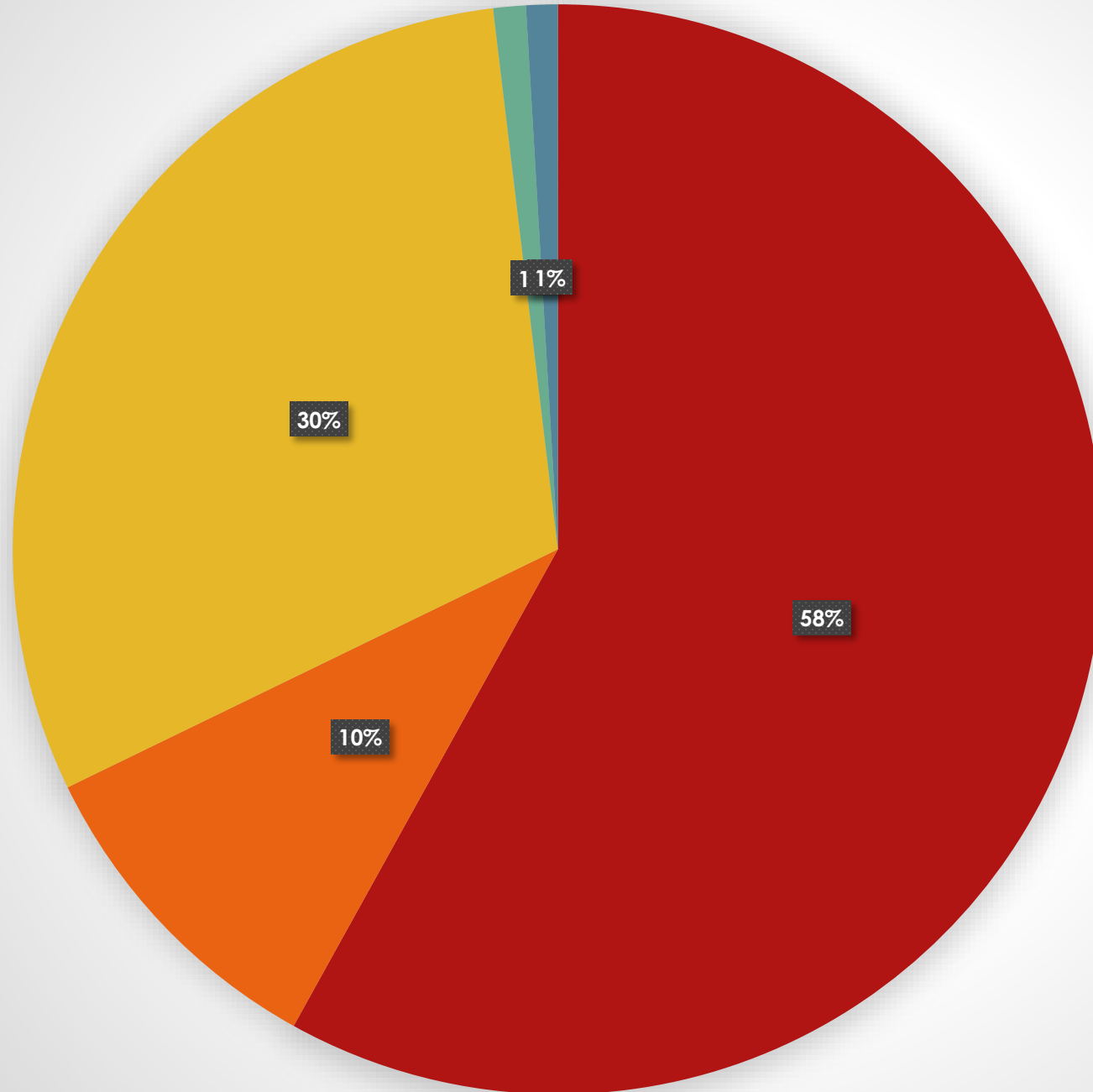
- ▶ Current Emissions: 44.2 mil tons CO<sub>2</sub> equivalent (2016)
- ▶ Transport Emissions: 7.17 mil tons CO<sub>2</sub> equivalent (2016)  
16% as against 23% world wide (IEA 2009)
- ▶ Projected Emissions: 75 mil tons CO<sub>2</sub> equivalent (2030)
- ▶ Targeted Emissions: 41 mil tons CO<sub>2</sub> equivalent (2030)
  
- ▶ Transport Sector Contribution to Achieving Target
  - ▶ Bus Rapid Transport System (Aayalolo in Accra)
  - ▶ Electric Mobility
  - ▶ Efficient Railway System



# Vehicular Mix STMA



# Mode of Transport STMA



■ Taxi

■ Private Cars

■ Light Buses (Trotro)

■ Cycles

■ Motor Cycles

# Sustainable Modes of Transport in STMA

- ▶ Pedestrian movements in STMA
  - ▶ 1 400 persons per hour on arterials (peak hour)
  - ▶ Walkways on some arterials
  - ▶ Dropped kerbs on walkways for the disabled
  - ▶ Pelican crossings and lights and speed ramps
- ▶ Cycling in STMA
  - ▶ 3% Cyclist in vehicular mix (Less than 1% as transport)
  - ▶ Cycling infrastructure inadequate
- ▶ Rail Transport
  - ▶ One passenger train trip during the morning and evening peaks (25% capacity)
  - ▶ No passenger service to other major towns
  - ▶ Manganese and bauxite transported by rail (10%).





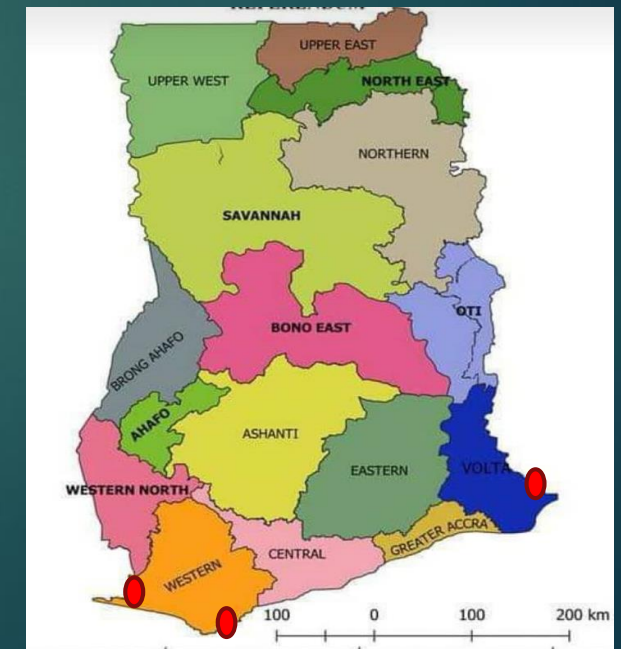
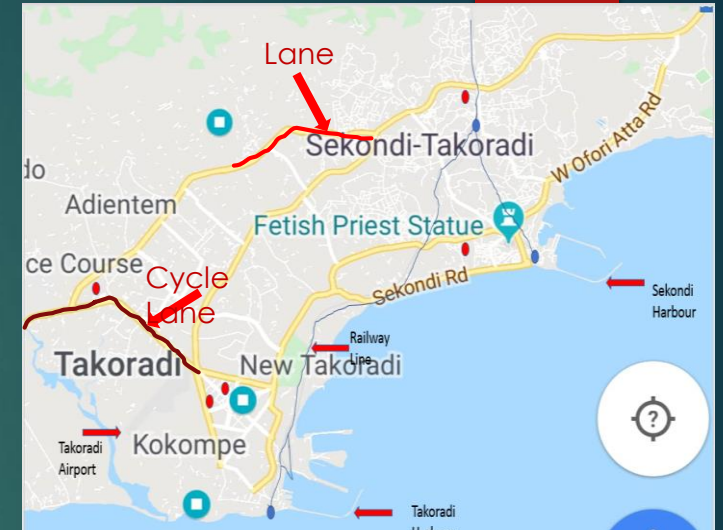
# Future Vision of STMA

- ▶ Walkways on all the arterial & collector roads
  - ▶ Tactile paving for the blind
- ▶ Decongest CBD walkways
- ▶ Review on- street parking
  - ▶ Parking not time based
  - ▶ Free some roads for pedestrian and cyclist
  - ▶ Pedestrians and cyclist to be given priority over vehicles
- ▶ Need for modal shift to rail
  - ▶ Integration of railways with other modes
- ▶ Move from diesel to electric trains
  - ▶ Current infrastructure supports convention to electric
- ▶ Train services to other major towns
  - ▶ Takoradi to Tarkwa to commence in Dec 2019



# Future Vision of STMA, Cont'

- ▶ Develop the northern railway line of the city
- ▶ Electric cars
  - ▶ National Agenda (2030)
- ▶ Cycle lanes on the new arterials to be developed
- ▶ Cycle facilities within the CBD
  - ▶ Parking facilities for cyclists
- ▶ Minimize vehicles in STMA
  - ▶ Trans Ecowas highways to bypass Takoradi
  - ▶ Introduction of bus services
- ▶ Review the transport and traffic plan (Last review 2005)



# Conclusion

- ▶ Oil and related services expected to increase economic activities in Sekondi Takoradi
- ▶ Emissions expected to increase including emissions from transport
- ▶ Roads department together with the Metropolitan Assembly and the Regional Administration must collaborate to implement proposed future visions to minimize emissions from transport
- ▶ The city must shift from moving vehicles to moving people in a sustainable manner. Priority should therefore be given in the following order; pedestrians, cyclist, trains, public buses then others.



THANK YOU