

African Sustainable Urban Mobility Course, Abuja

Urban Mobility in Kumasi, Sustainable Innovations and Future Vision

Kumasi Metropolitan Assembly, (KMA), Ghana



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Kumasi Metro Area–(Current with New Municipalities)

Population

2,361,898

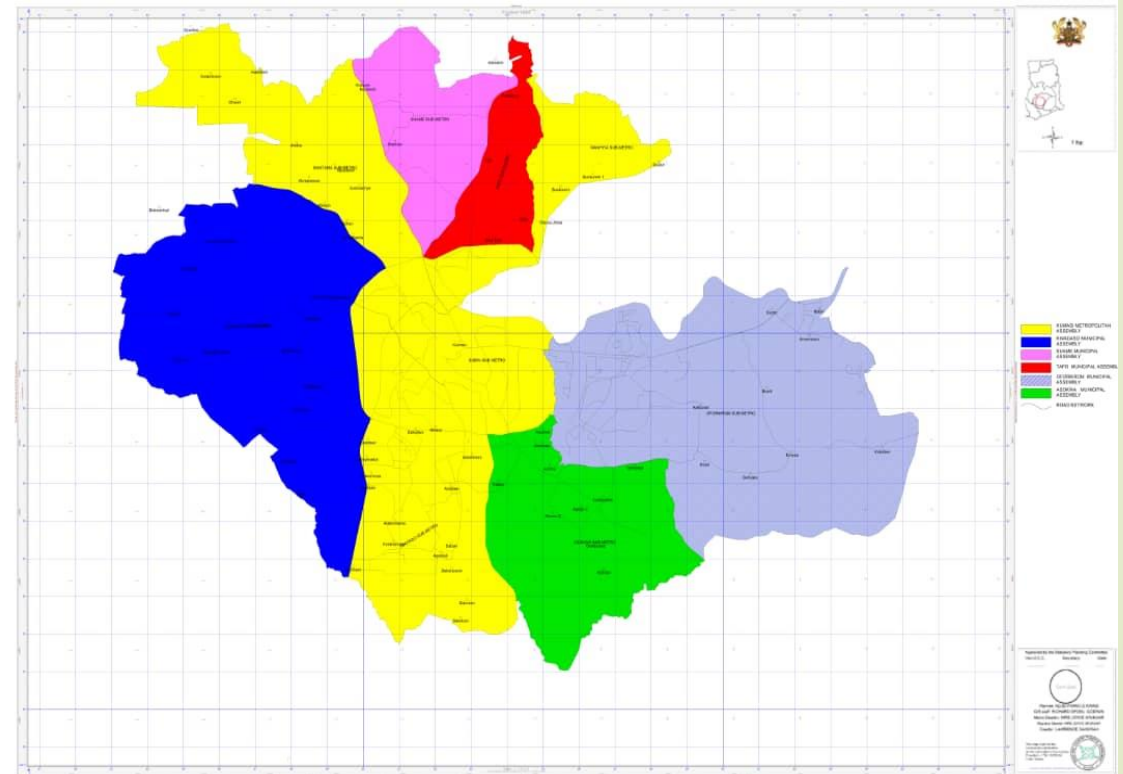
Land Area

238.0 km²

Population Density

9,915/km²

Map showing Expanded Kumasi



MAP OF KUMASI METROPOLITAN ASSEMBLY NEW BOUNDARY AND ITS ADJOINING MUNICIPAL

Greater Kumasi Metropolitan Area

Map Showing Greater Kumasi Area

Population

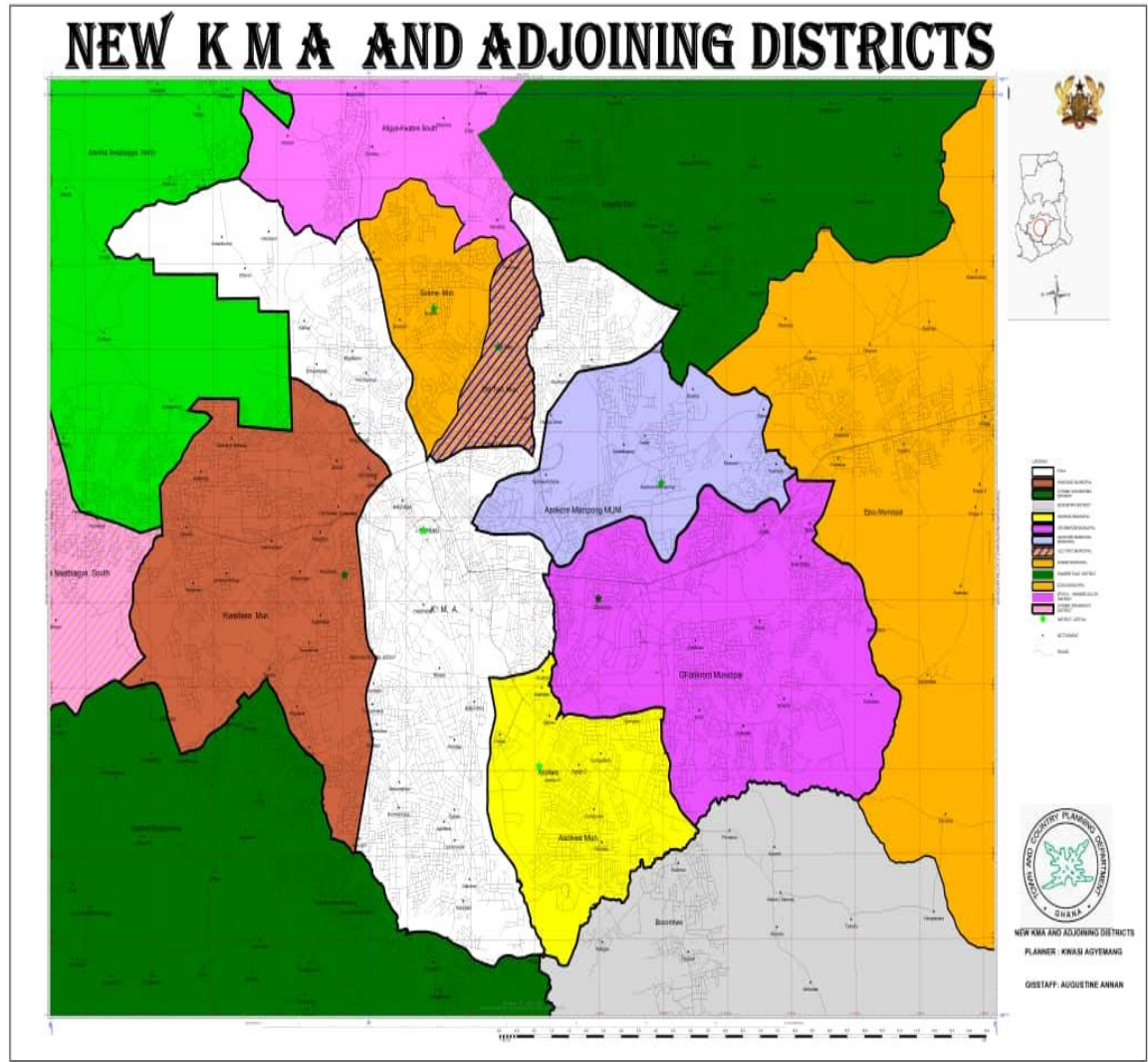
3,190,473

Land Area

2,603km²

Population Density

1,225.9/km²

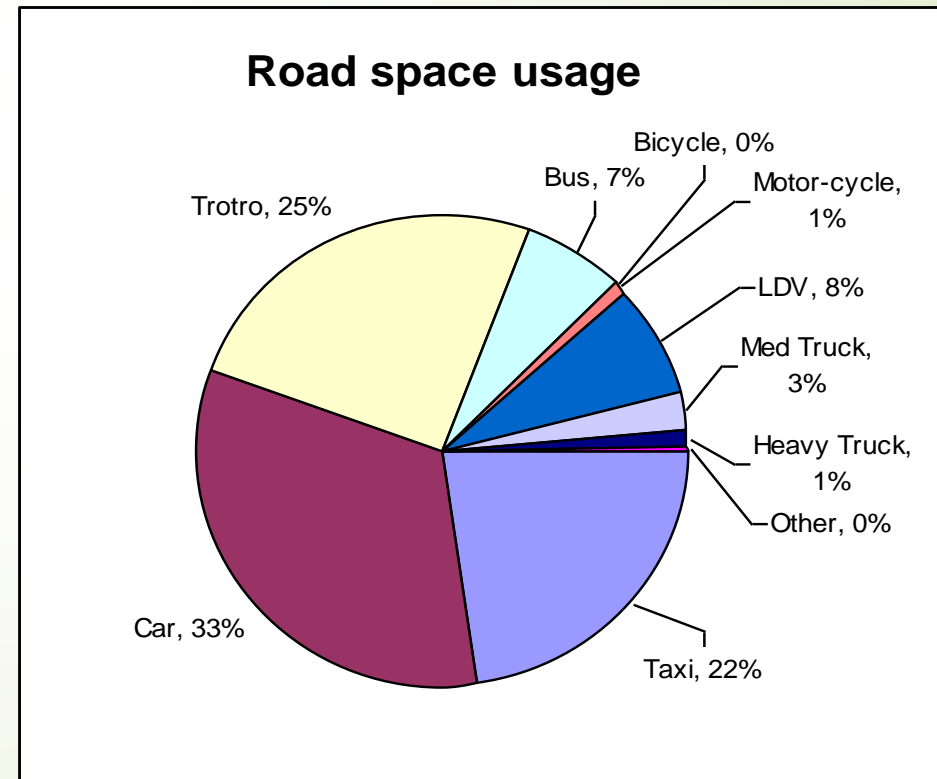
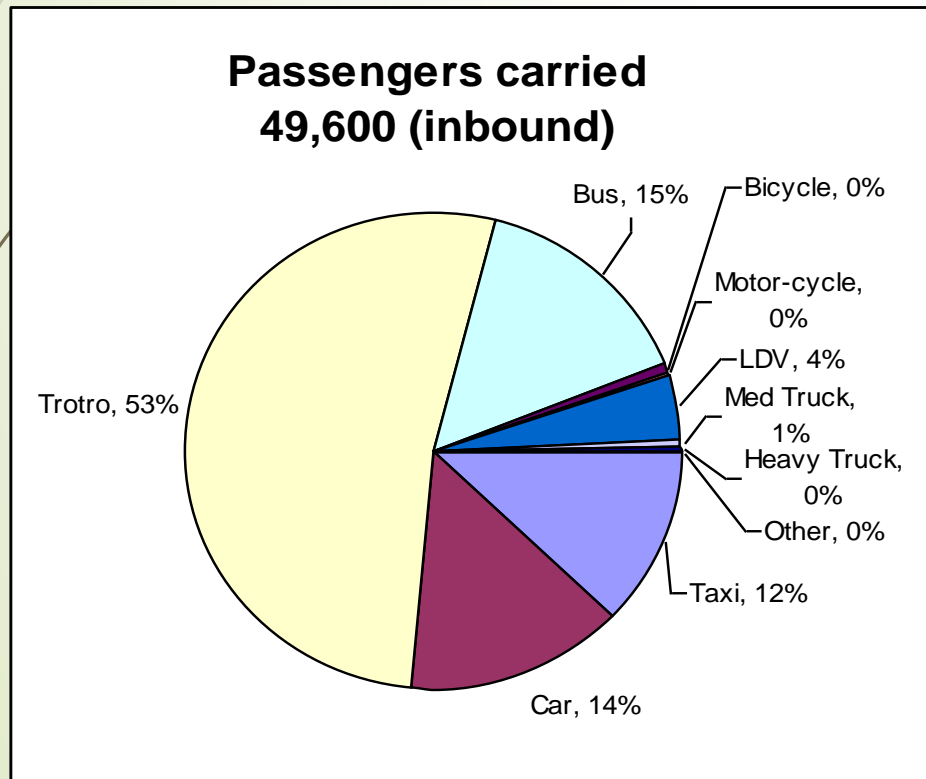


Nature of Mobility in Kumasi

- ▶ The predominate mode of transport is by Trotro (mini-buses carrying between 14 and 23 passengers) and shared Taxis which take Four (4) passengers
- ▶ They do not provide scheduled services and they operate with the 'fill and go' principle.
- ▶ There are between 300-450 buses that carry more than 30 passengers capacity and all ply on long distance inter-city routes from Kumasi to other regional capitals or big towns
- ▶ Kumasi have received Sixty (60) buses of Eighty-six (86) seater capacity from the Ministry of Transport to be used for public intra-city transport and currently running a few on pilot basis

Nature of Mobility in Kumasi Cont'd

- Data from a study in 2011 on urban mobility situation indicates that the trotro/buses are responsible for carrying about 68% of travellers and 12% by taxis. Trotros occupy less than 30% of road usage while private vehicles account for 33% but carry only 14% of passengers



Mobility Challenges in Kumasi

- **Poor integrated land use planning and control procedures**
 - urban sprawl with its traffic congestion on major arterial roads and safety hazards
 - most of the lands in the CBD is owned by private individuals who use them for commercial purposes.
- **The low capacity and poor conditions of traffic management and existing road network**
 - Traffic light are not coordinated
 - Congested city centre
 - Lack of alternative parking lots for private vehicles

Mobility Challenges in Kumasi Cont'd

- **Inadequate facilities for public transports and inefficiency of the overall system**
 - limited capacity and poor condition of transport terminals
 - Inadequacy or lack of a good database
 - The use of small sizes of vehicles for public transportation
 - The low standards of road traffic awareness
- **Institutional framework not optimized for mobility organization**
 - Funding for transport activities
 - Formation of Unions / Setting up of Stations
 - Social and political interference

Future Plans / Sustainable Innovations

- Preparation of Sustainable Urban Mobility Plan (SUMP)
- Data Collection and Digitization of Transport Activities with the Help of ASTON
- Bus Enhancement System
- Road Safety with support from Bloomberg
- Infrastructure Construction and Modifications

Implementation Measures

➤ Infrastructure Modifications

- Pavement
- Road line markings
- Road signs

➤ Enforcement Measure

- Provision of devices and equipment:
 - Speed radar guns
 - Breathalyzers

Implementation Measures

➤ Education /Sensitization

- Media Campaigns
- Advocacy

➤ Collaborations with Stakeholders

- Universities (KNUST)
- Research Institutions (BRRI)
- Consultants