



















2. Responses to the mobility crisis



3. Role of public transport in sustainable development in Africa

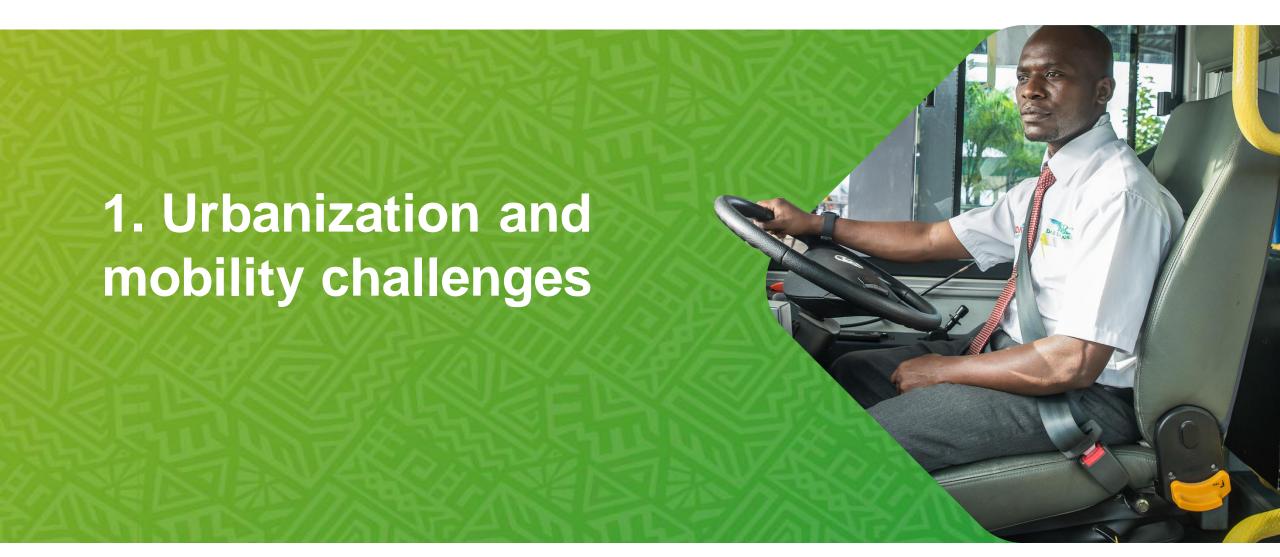


4. Mobilizing finance for mass transport systems



SUMMARY



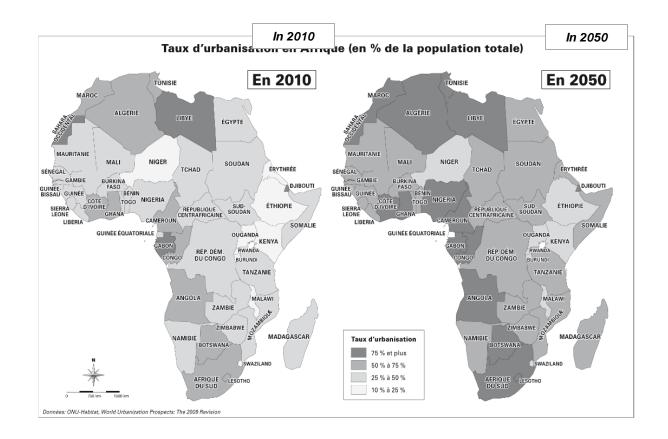




1.1 Rapid urbanization in Africa

Africa has one of the highest urbanization rates in the world.

- Urbanization rate in 2010: 39%.
- Projections in 2050: 60%.

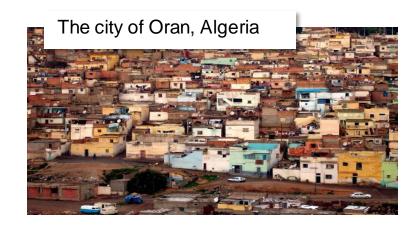




1.2 Impacts on mobility

This strong urbanization rate combined with:

- Poor urban design
- Insufficient and poor quality urban road networks
- Weak mass public transport policies



Lead to major spatial transformations and increased transport needs, thus placing new travel trends and urban transport and mobility issues at the core of the discussion.





1.2 Impacts on mobility (Cont'd)





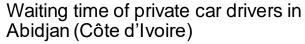






Investments are not optimized, example of LRT in Addis Ababa (Ethiopia)









1.3 Other development impacts



Economic

- **❖Direct costs of congestion/accidents**
- **❖Limited access to employment opportunities and services**
- **❖Loss of city attractiveness and competitiveness**



Social

- **❖Increased weight of transport expenditure on household budgets**
- ❖Inequality of access (physical and financial)
- **❖**Women and people with disabilities



Environmental

- **❖Impact on the aesthetics and hygiene of the city**
- **❖**Contribution to climate change
- **❖Particulate matter pollution health impacts**

The total cost due to these impacts on the economy is estimated at 2% to 4% of a country's GDP.



1.4 African cities: Diverse figures/similar issues

Lack of awareness

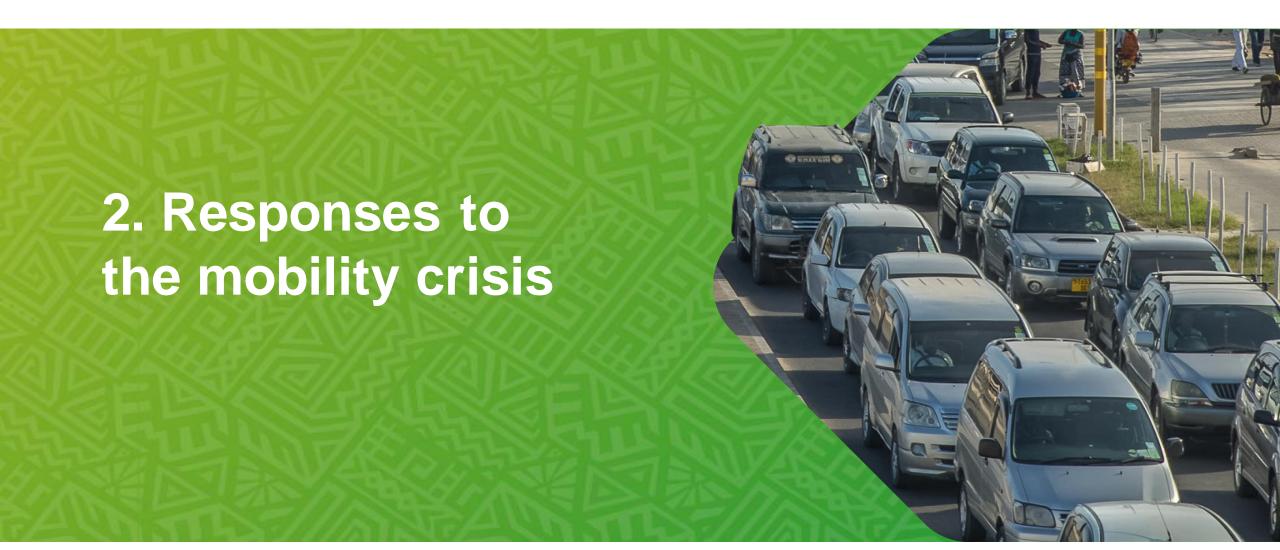
- Lack of sustainable resources
- No leadership for urban mobility
- Suboptimal projects and management

No organization

- Need for capacity building
- Lack of civil society engagement Lack of data
- Short-term focused private sector
- No plans or not implemented









2.1 Traditional approaches focused on infrastructure

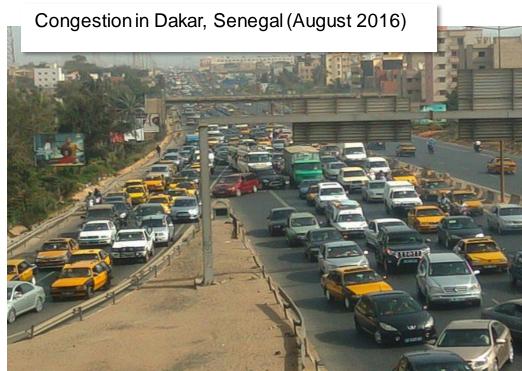
The challenges of urban mobility in Africa require new solutions. Until recently, solutions focused on:

- increasing road capacity
- improving public transport facilities
- improving traffic flow

Ad-hoc solutions, but no structural changes...



Formalization project that replaced old informal public transport fleets with renewed bus fleets in Dakar. Launch date: 2005





2.2 An integrated approach is the key... Infrastructure + Policy focused

The Holistic "EASI" Approach:

ENABLE AVOID SHIFT **IMPROVE** Establishment of a Act on / reduce Decrease the use Improve the travel demand of private cars efficiency of regulatory, institutional and transport modes / Reduce travel time Develop / promote financial framework inter-modality alternative modes of / distance Promote the Capacity building transport integration of new technologies

Source : SSATP, WP106

Politiques de mobilité et

d'accessibilité durables

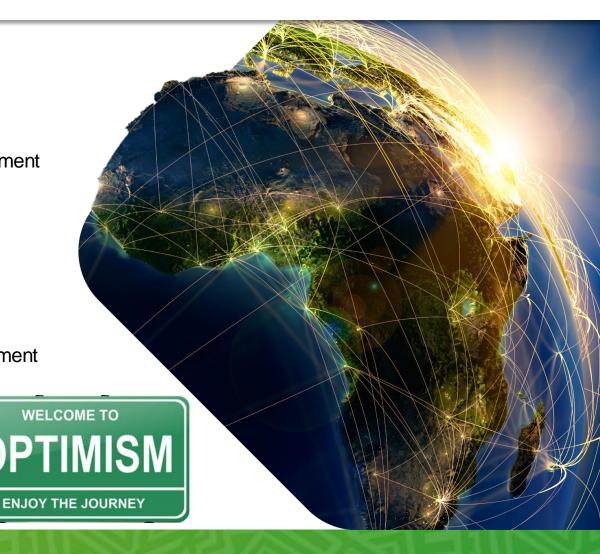
dans les villes africaines



2.3 EASI: Prospects for OPTIMISM

- Awareness
- Strong leadership
- Adequate institutional setup
- Civil society engagement
- Private sector development

- Sound projects & management
- Sustainable funding
- Proper skills
- Data collection & management
- Integrated planning





2.4 Good case studies: Sustainable urban mobility & accessibility

Awareness

Sound projects & management

Strong leadership

- Sustainable funding
- Adequate institutional setup Proper skills
- Civil society engagement
- Data collection & management
- Private sector development
- Integrated planning





2.4 Good case studies: Sustainable urban mobility & accessibility

Strong Leadership

Institution building to serve long-term vision

- The Government of Senegal
- The Governor of Lagos State
- The Government of Kenya
- The Government of Cote d'Ivoire





2.4 Good case studies: Sustainable urban mobility & accessibility

Macage Adequate Institutional Setup

Clear allocation of responsibilities

- CETUD in Dakar in 1997
- ❖ LAMATA in Lagos in 2002
- NAMATA In Kenya in 2017
- In Addis Ababa, the Road and Transport Bureau (AARTB)
- In Kigali, coordination between the City of Kigali, Road and Transport Development Agency and Ministry of Infrastructures
- "Grand Abidjan Mobilité" in 2019



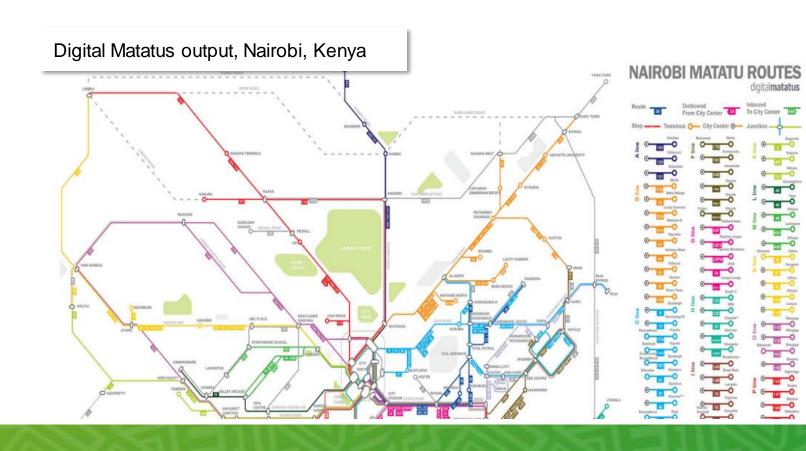


2.4 Good case studies: Sustainable urban mobility & accessibility



Build knowledge using data

- Dakar Mobility Survey in 2015 gave a clear vision of the situation
- "Digital Matatus" and "Accra Mobile" data collection on paratransit services
 through GPS-enabled smartphones
- Daily data collection in Kigali Bus
 Terminus to supervise operators





2.4 Good case studies: Sustainable urban mobility & accessibility

Proper Skills

Enhance capacities at all levels

- Ghana Urban Mobility and Accessibility Project: Capacity building for municipalities in Accra Metropolitan Area and Master Program in Kumasi National University (KNUST)
- Various international programs: LUTP, TUMI, CODATU+EAMAU, etc.
- University curricula under development: Abidjan, Dakar, Accra...



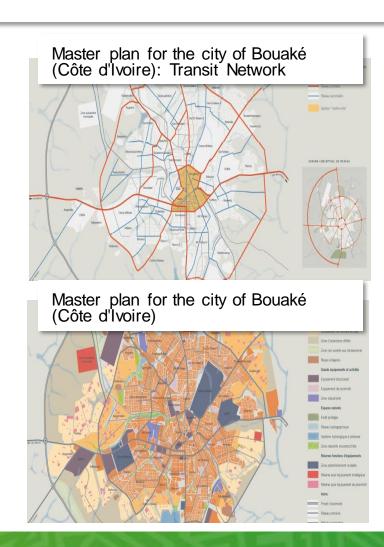


2.4 Good case studies: Sustainable urban mobility & accessibility

Integrated Planning

Integrated urban development and transport at planning and implementing stages

- Conakry Sustainable Urban Mobility Planning
- Master Plan of Greater Abidjan (SDUGA 2015-2030)
- Bouaké Integrated Master Plan
- Kigali Master Plan implementation





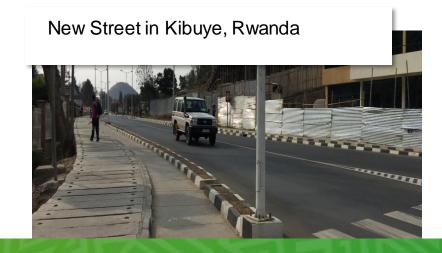
2.4 Good case studies: Sustainable urban mobility & accessibility

Good Projects & Management

Optimization of resources and formalization

- Professionalization program for bus operators in Dakar
- Fleet Renewal & Paratransit Regulation in Dakar 2 first phases: 505 vehicles (2005-2008), 1102 vehicles (2010-2015).
- In Rwanda, Road Transport Development Authority (RTDA) has developed standards. They include sidewalks and cycle paths each time the space for roads / streets is wide enough.







2.4 Good case studies: Sustainable urban mobility & accessibility

Sustainable Funding

Specific mechanisms for investment and operations

- Lagos State: Since 2007, 50% of Motor Vehicle Authority revenue should be remitted to a Transport Fund which is utilized by LAMATA: 5-6 MUSD.
- Addis Ababa Municipality: The Transport Fund Office (TFO) was created; it receives funds from all transport fines and penalties, parking fees, advertisement revenue from bus shelters, etc. (40 MUSD)
- Dakar: Fonds de Développement des Transports Urbains (FDTU)





2.4 Good case studies: Sustainable urban mobility & accessibility

Private Sector Development

Strengthening the local economy

- Professionalization of operators in Dakar and creation of a mutual health insurance
- Contractualization with bus operators in Kigali
- Start-up Development: Sunubus, Amarante, etc. in Dakar, AC Group, YegoMoto in Kigali, Cozco e-Parking in Abidjan, Ma3Route in Nairobi, etc.



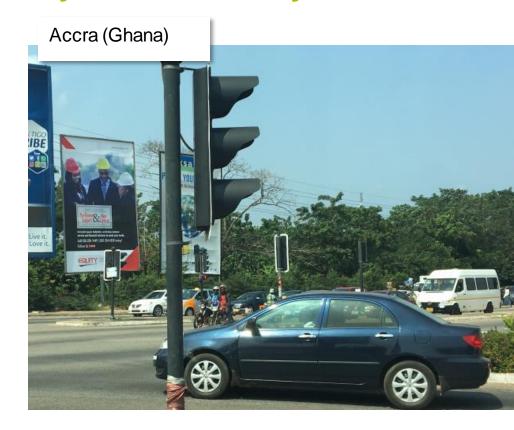


2.4 Good case studies: Sustainable urban mobility & accessibility

Civil Society Engagement

Mobilization of citizens

- Nairobi: Kenya Alliance of Residents Associations (KARA) is 18 years old. It has a dedicated focus on urban mobility matters (safe pedestrian crossings, etc.)
- Senegal, Dakar: A consumer association is part of the Board of CETUD since its creation and "Save Dakar" is really active on social networks, promoting a new image of Dakar and blaming non-respectful behavior.





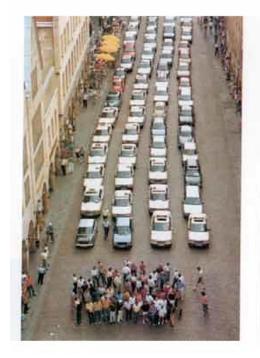








3.1 Amount of space required to transport the same number of passengers by car, bus or bicycle







Car?

Bus?

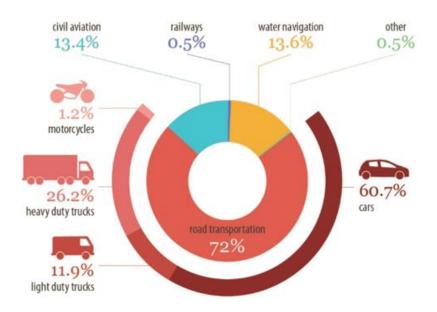
Bicycle?



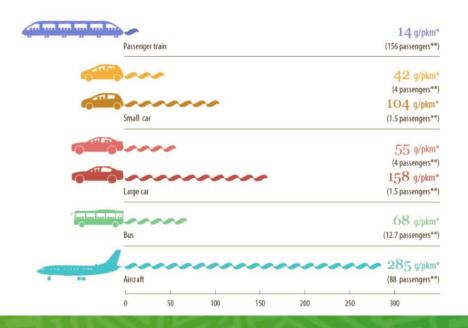
3.2 Adverse impact by modes of transport

TRANSPORT CO2 EMISSIONS IN THE EU

Emissions breakdown by transport mode (2016)



CO2 emissions from passenger transport (2014)





3.3 Public transport system

Metro systems

- ❖ ALGERIA x 1 Algiers.
- * EGYPT x 1 Cairo.
- SOUTH AFRICA x 5 Cape Town, Port Elizabeth, Durban, Pretoria and Johannesburg.
- TUNISIA x 1 Tunis.





3.3 Public transport system (continued)

LRT

- ❖ ALGERIA x 2 Algiers Constantine
- ETHIOPIA x 1 Addis Ababa
- ❖ NIGERIA x 2 Abuja Bauchi





3.3 Public transport system (continued)

BRT Systems

- In Operation: Lagos Johannesburg
- Under Construction: Cape Town Port Elizabeth
- Planning phase: Accra Dakar Dar es Salaam East London Kampala Nairobi Pretoria





3.3 Public transport system (continued)

Formal bus companies

- Dakar Dem Dikk in Dakar, Senegal
- M'dina Bus in Casablanca, Morocco
- SOTRA Buses in Abidjan, Côte d'Ivoire







4. Mobilizing finance for mass transport systems



4.1 How can we mobilize private finance?

- Capital grant/blend finance upon construction or milestones
 - Matching loan disbursements and payments to the SPV in availability payment schemes
- Guarantees: liquidity, early termination, political risk
 - Sovereign and non-sovereign
 - Structured public finance
- SOEs (ECA, EAP) to mobilize private finance
 - Restructuring to enhance efficiency and credit worthiness
 - Asset recycling: divestiture, concessions, securitization
 - Indonesia InfraSAP
- Securitization of road asset fund (and its limitation)

Guarantee of payment obligations/ termination payments



- IBRD/IDA: Capital grants, blended finance
- **IFC:** equity, lending and loan syndication

Upon construction or milestones

Concessional financing in IDA countries IDA and IDA-PSW

4. Mobilizing finance for mass transport systems



4.2 WBG support for Maximizing Finance for Development (MFD)

MFD aims to help countries maximize their development resources by drawing on **private financing and sustainable private sector** solutions to provide value for money and meet the highest environmental, social, and fiscal responsibility standards, and reserve scarce public financing for those areas where private sector engagement is not optimal or available.

Advisory: Strengthening PPP Frameworks

Advisory: Planning PPP programs & selecting projects

Advisory: Preparing, structuring & marketing PPP projects

Financing (or backstopping) public sector contribution

Financing or insuring private sector





™XXX Global

Infrastructure

Facility













- Institutional reform & strengthening
- Capacity-building
- Fiscal management
- Identifying projects with potential to be successfully implemented as PPPs
- Prioritizing and sequencing PPP projects

- Strategic guidance
- Technical, environmental. social, economic, financial, fiscal feasibility analysis
- PPP & financial structuring
- Transaction support

- WB Investment lending : CAPEX contribution
- · WB quarantee on government payment obligations
- · WB Liquidity facility for government risks

- IFC: Project debt (various structures)
- AMC, MCPP, and Infraventures
- MIGA: Insurance against political & related risks

Keep in touch





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