

Institute for Transportation & Development Policy





SUSTAINABLE CITIES THROUGH TRANSPORT: IMPROVING FINANCING MECHANISMS AND INSTITUTIONAL CAPACITY

AUGUST 2023 CONFERENCE REPORT

1. INTRODUCTION

In many African countries, investments in road infrastructure have grown rapidly in a bid to support the growth of cities. Meanwhile, investments in sustainable transport have lagged even though pedestrians, cyclists, and public transport users comprise the majority in most cities. The introduction of highway-oriented road designs has led to high rates of fatalities from crashes and diminished neighbourhood permeability. As a result, walking and cycling levels have been on the decline, as active trips are replaced by motorised modes. Public transport is often inefficient, with buses and minibuses stuck in traffic. Vehicle maintenance is poor and crews work without adequate labour standards. The lack of quality public transport further contributes to the image of the private car as a status symbol. Overall, the lack of people-centred planning has contributed to increasingly expensive commutes, high fuel costs, worsening traffic, and poor air quality.

To address challenges and opportunities in implementing sustainable transport in African cities, the Institute for Transportation and Development Policy (ITDP), International Climate Initiative (IKI), the African Development Bank (AfDB), the Urban and Municipal Development Fund (UMDF), United Nations Human Settlements Programme (UN-Habitat), Children's Investment Fund Foundation (CIFF), UN Economic Commission for Africa (UNECA), UN Environment Programme, and United Nations Road Safety Fund organised a conference under the theme Sustainable Cities through Transport: Improving Financing Mechanisms and Institutional Capacity. The conference, held from 9–10 August 2023 in Addis Ababa, Ethiopia, brought together approximately 75 experts from eleven African countries: Burundi, Ethiopia, Djibouti, Ghana, Guinea, Kenya, Mozambique, Nigeria, Rwanda, Tanzania, and Uganda.

Through support from the Urban and Municipal Development Fund (UMDF), government officials from the region were able to learn from their peers on how to effectively plan for sustainable cities and implement quality, integrated and transformational projects.

2. CONFERENCE SESSIONS

2.1 INTRODUCTIONS AND OFFICIAL OPENING

Cecilia Andersson, Urban Mobility Lead, Urban Basic Services Section, UN-Habitat, kicked off the conference and Chris Kost, Africa Program Director, ITDP welcomed the delegates and provided an overview of ITDP's work and initiatives in the region. He emphasised the importance of collaboration and improving financing mechanisms to create better streets and transport systems in cities. H.E. Berio Hassen, in his official opening address, highlighted the need for inclusive,

sustainable, and quality public transport in African cities. He shared insightful examples of nonmotorised transport (NMT) and bus rapid transit (BRT) projects under implementation in Ethiopian cities. Secondary cities have constructed over 80 km of footpaths and 36.5 km of cycle tracks with support from the federal government and development banks. Addis Ababa has secured financing for two out of fifteen planned BRT corridors, and construction is ongoing for the B2 BRT corridor.

Solomon Waithaka, a board member of ITDP, outlined ITDP's areas of operation and stressed the need for greater funding commitments from partners. He showcased ITDP's active projects in different cities, including BRT projects in Dar es Salaam and inclusive street initiatives in Kisumu and Addis Ababa. He also identified collaboration opportunities, including mobility roadmaps, urban street design manuals, and gender-inclusive public transport reforms.

Babati Mokgethi, Senior Urban Development Specialist from AfDB, gave introductory remarks, outlining the Bank's support in ensuring cities are efficient and integrated. He emphasised the importance of a holistic approach to mobility planning, ensuring that urban streets facilitate efficient mobility, social interaction, and safe access for users of all ages, genders, and abilities. He noted that cities need to offer financially viable solutions that give people alternatives to private vehicles. AfDB is working on urban infrastructure projects including the Sheger Riverside Redevelopment in Addis Ababa; the USD 159.3m Dar es Salaam BRT phase 2; NMT and junction improvements in Kigali; and an urban roads rehabilitation project in Kampala. The bank is engaging governments to discuss plans for additional urban development projects across the continent.



Figure 1: Cecelia Andersson, UN-Habitat, the conference moderator, officially opening the conference (left), and Eng. Solomon Waithaka giving an overview of ITDP's work in the region (left).

2.2 PLANNING AND IMPLEMENTING SAFE AND EFFICIENT PUBLIC TRANSPORT

A significant focus of the conference was the role of planning and implementing adequate infrastructure for safe and inclusive public transport. Chris Kost from ITDP highlighted the advantages of investing in sustainable transport for Africa's largest cities, drawing on analysis from the <u>Why Infrastructure Matters</u> study. Under the status quo, increased private vehicle use will lead to higher costs, more crashes, and greater emissions in cities. By focusing on active mobility and public transport, cities could save USD 109 billion in avoided expenditures on fuel, reduce crash fatalities by 63 percent, lower infrastructure costs by 43 percent, and decrease carbon emissions by 63 percent.

The conference featured informative case studies that showcased the transformative power of sustainable transport initiatives. Dr. Edwin Mhede, Chief Executive of the Dar Rapid Transit Agency (DART), presented the success story of the BRT system in the city. He highlighted how the implementation of BRT significantly improved travel times, inclusivity, and socio-economic impacts. Dr. Mhede emphasised the importance of institutional capacity, inter-government coordination, stakeholder inclusion, and proper planning in achieving successful sustainable transport projects. Dar es Salaam has secured financing for phases 2, 3, 4, and 5 of the BRT, and negotiations are underway with the Green Climate Fund for the financing of phase 6. Once completed, the BRT network will span 154.5 km, 20.9 of which is already operational. Phase 2 is expected to be operational by quarter 1 of 2024. Representatives from Addis Ababa, Nairobi, and Kampala also presented ongoing BRT plans in their cities. In Nairobi, BRT line 2, which is financed by the Government of Kenya, is expected to be completed by the end of 2024. Line 3 is financed by the European Investment Bank and is expected to be fully electric, while Line 5 is financed by the Korea Exim Bank. In Kampala, plans are underway to complete detailed designs for the BRT with financing from the African Development Bank. The city is sourcing for financing for the BRT network.



Figure 2: Chris Kost, ITDP, giving an overview of the benefits of investing in sustainable transport (left), and Dr Edwin Mhede from DART presenting on the Dar es Salaam BRT.

2.3 OPPORTUNITIES FOR INCLUSIVITY AND EQUITY

Bus sector modernisation is key in ensuring inclusive and equitable access to the transport system. Most cities in the region have poor representation of women in the transport sector, both in government and private sector. As the industry modernises, there is a need to ensure women are part of the process. To address gender inclusion challenges, representatives from the City of Kigali, DART, the Nairobi Metropolitan Area Transport Authority (NaMATA), and the Kenya Urban Roads Authority (KURA) outlined ongoing initiatives to involve women in the public transport industry transition process and develop streets that are inclusive of all, including women, children, and persons with disabilities. ITDP presented a study on <u>Gender equity in Cairo's greater public transport system</u>. Based on feedback from female public transport users, Cairo's BRT plans aim to provide comfortable walking and cycling facilities; safe and accessible stations; adequate planning to reduce crowding on buses; and mixed-use development to ensure security on the streets.



Figure 3: Sheila Uwase from City of Kigali presenting during the panel on gender equity in transport.

2.4 OPPORTUNITIES IN PUBLIC TRANSPORT FINANCE

A panel discussion on public transport finance shed light on various initiatives and projects aimed at improving urban mobility and addressing transport challenges. Representatives from the African Development Bank (AfDB), World Bank, European Investment Bank (EIB), and government agencies shared their perspectives on funding, infrastructure development, and sustainable transport solutions. Babati Mokgethi from AfDB highlighted how the bank has been involved in financing urban transport projects across Africa with a ten-year strategy focused on inclusive green growth. The Urban and Municipal Development Fund (UMDF) has been crucial in providing technical assistance for urban infrastructure investments, ensuring feasibility studies, operational plans, and governance structures are in place before project financing and implementation. The European Investment Bank (EIB) emphasised climate action and better livelihoods, pointing to the bank's ongoing backing of the fully electric BRT Line 3 project in Nairobi. The World Bank showcased plans for equitable and sustainable transport upgrades in Nairobi and Kigali, spanning dedicated lanes, bus terminals, and commuter rail.



Figure 4: Babati Mokgethi from AfDB presenting on the bank's initiatives in the region (left), and Akiko Kishiue from the World Bank presenting on projects in Nairobi and Kigali (right).

2.5 COMPLETE STREETS, INCLUSIVITY, AND COMMUNITY DRIVEN DEVELOPMENT

On the second day of the conference, focus shifted towards NMT and transit-oriented development (TOD). Janene Tuniz from the UN Environment highlighted the challenges faced by African cities in terms of walking and cycling environments and introduced the Pan African Action Plan for Active Mobility (PAAPAM), which aims to consolidate efforts on NMT in the region by defining common priorities, encouraging financial investments, promoting dialogue and knowledge sharing, and identifying key indicators to track progress.

Fetiya Degdeba from the Road Safety and Insurance Fund Service in Ethiopia discussed the concept of complete streets, inclusivity, and community-driven development. She recounted the evolution of NMT planning in Ethiopia, including the adoption of the Addis Ababa NMT Strategy, which brought about greater allocations of city funding to active mobility infrastructure. After successful implementation, with noticeable ongoing results, the federal government adopted a national NMT Strategy, leading to an increase in walking and cycling investments in secondary cities. The session included the soft launch of the Ethiopia Urban Street Design Manual, which aims to harmonise guidelines and standards across the country and facilitate the design of streets that serve all users, including pedestrians, cyclists, public transport passengers, motorists, and freight.



Figure 5: The soft launch of the Ethiopia Urban Street Design Manual.

Delegates engaged in a thought-provoking panel discussion on the financing of public spaces in African cities. The panellists included representatives from Nairobi City County, the Tanzania Rural and Urban Roads Agency (TARURA), City of Quelimane, City of Kisumu, and City of Kigali. Dr Manuel de Araujo, the Mayor of Quelimane City, shared insights into the financing of public spaces in Mozambique and discussed the political and financial challenges in spearheading the shift to cycling. Quelimane, located in northern Mozambique, has successfully built a cycling culture by constructing the first protected bike lane in the country. The mayor himself promotes cycling, encouraging visiting dignitaries to explore the city by cycle and facilitating livelihoods for 4,000 young people who work as bicycle taxi drivers. Mr Abala Wanga, City Manager, City of Kisumu, highlighted the NMT work done under the World Bank-financed Kenya Urban Support Program. Plans to complete phase 2 of the project are ongoing. The various sustainable mobility projects in the city, including the on-going plans to implement an NMT greenway along Lake Victoria, are guided by the <u>Kisumu Sustainable Mobility Plan</u>.

2.6 INTEGRATED URBAN PLANNING: FINANCING TRANSIT-ORIENTED DEVELOPMENT THROUGH LAND VALUE CAPTURE

Solving existing urban transport challenges also requires an integrated approach to urban planning. Cities in the region are working towards urban planning policies that link transport investments and zoning regulations to provide access and efficiency. In a panel on integrated urban planning and TOD financing through land value capture, Eng. B K Njenga, Secretary, Urban and Metropolitan Development, Ministry of Lands, Public Works, Housing, and Urban Development, presented on how the government of Kenya is planning affordable housing projects near main public transport nodes. Eng. Mohamed Kuganda from DART outlined ongoing policy work to lay the groundwork for TOD implementation along BRT corridors in Dar es Salaam. Babati Mokgethi from AfDB presented opportunities for land value capture and green bonds to finance urban and transport improvements.

3. SITE VISTS

During the two-day conference, participants had an opportunity to visit different mobility projects in Addis Ababa. During the first day, participants visited the Sheger Riverside development, a greenway along the rivers of Addis Ababa. The project is partly funded by AfDB and aims to provide access to public transport modes and connectivity to the city's NMT network. In addition to improving the environment and liveability, the initiative is expected to improve local real estate values and revenue generation in the area. During the second day, participants visited Churchill Avenue, a multimodal corridor with wide walkways, a bidirectional cycle track, and a mix of adjoining land uses. Street activity is encouraged by street furniture and the inclusion of trees. To increase the available space for walking, the government negotiated with property owners to open up the lower floors of buildings to create arcades. The project has resulted in a more conducive walking and cycling experience and has spurred business for restaurants and shops.



Figure 6: Participants enjoying a bike ride along Churchill Avenue during a site visit.

3.1 CONCLUSION AND NEXT STEPS

The conference proved to be a valuable platform for delegates to shape strategies and reimagine project execution. Government representatives used the opportunity to refine project plans, and multilateral development banks committed to working with stakeholders to offer technical and financial support in project preparation and implementation. Agencies are also considering new approaches to public-private partnerships and local revenue generation through land value capture and green bonds to buffer existing economic conditions.

The last session involved different delegates outlining key projects that could be taken forward with technical and financial support from the partners. Followings are the key projects outlined for each country.

3.1.1 BURUNDI

- Bujumbura transport infrastructure improvement project:
 - o Development of an urban transport master plan
 - \circ Capacity building for stakeholders in the transport and infrastructure sector
 - Design of a BRT line in Bujumbura
- NMT implementation in Bujumbura:
 - $\circ \quad \text{Corridor selection}$
 - Design of footpaths and cycle tracks
- Electric vehicle project:

- Establishment of a legal framework
- Identification of financing options

3.1.2 ETHIOPIA

- Technical support for BRT planning
- Bus sector modernisation and fleet renewal
- Technical support for parking management improvements

3.1.3 GUINEA

- Establishment of a public transport regulation agency:
 - Support in ensuring adequate technical capacity
 - Construction of terminals and bus shelters
 - Acquisition of 200 buses
- Implementation of the Conakry BRT project:
 - Financing for the BRT
 - \circ $\;$ Technical support in the design and implementation process

3.1.4 UGANDA

- Kampala BRT project:
 - Financial and technical support for the implementation of the 14 km first phase BRT project out of the planned network of 42 km
- NMT project:
 - Financial support for 20.2 km of cycle tracks for which designs are ready

3.1.5 KENYA

- Technical assistance for BRT implementation in Mombasa, in addition to NMT for first- and last-mile connectivity
- Financing for BRT line 4 in Nairobi
- Technical assistance for BRT Line 2 in Nairobi
- Technical assistance for NMT phase 2 in Kisumu
- Technical assistance in improved capacity and governance within NaMATA and coordination among government agencies

3.1.6 TANZANIA

- Technical assistance and financial support in implementing public spaces in Dar es Salaam and Dodoma
- NMT strategy for Dar es Salaam, including bikeshare with electric bikes
- Land value capture policies

3.1.7 GHANA

- Technical and financial support for NMT and bikeshare at tertiary institutions
- Technical and financial support for the redesign of junction improvement projects in Kumasi to incorporate BRT
- Technical and financial support for the public transport industry transition

3.1.8 NIGERIA

- Technical and financial support for implementation of a pilot NMT project and public awareness on NMT
- Implementation of a 32.5 km BRT corridor in Abuja

3.1.9 RWANDA

- NMT improvements in the Kigali central business district
- Implementation of BRT in Kigali
- E-vehicle charging infrastructure

4. APPENDIX

4.1 PROGRAMME OVERVIEW

Day 1: Wednesday, 9 August 2023

Moderated by Cecilia Andersson, UN-Habitat

Time	Activity	Responsible
8:30	Welcome	Chris Kost, ITDP
8:40	Official opening	H.E. Berio Hassan, State Minister, Ministry of Transport and Logistics
8:50	Overview of ITDP & partners	Solomon Waithaka, Board Member, ITDP
9:00	Introductions and welcome message	Babati Mokgethi, African Development Bank (AfDB)
9:10	Ice breaker/Introductions	Abel Estifanos
9:20	Why infrastructure matters: Active mobility, public transport, and economic growth	Chris Kost, ITDP
Planning	and implementing efficient and safe public trans	port
9:35	Case study: Planning, financing, and implementing efficient public transport in Dar es Salaam	Dr Edwin Mhede, Dar Rapid Transit Agency (DART)
10:05	Planning for BRT in Addis Ababa	Mohammed Hussein, AATB
10:20	Designing Inclusive multi-modal corridors	Ezekiel Fukwo, KeNHA
10:35	Nairobi BRT system: Route planning and infrastructure implementation	Eng. John Githui, NaMATA
10:50	Kampala BRT planning: The industry transition process	Eng. Jacob Byamukama, KCCA
11:05	Q & A	Yuki Takada, UN-Habitat
11:20	Tea break	-
Equitable	e and accessible public transport	
11:40	Gender equity in transportEng. John Githui, NaMATA	Moderated by Carolyne Mimano, ITDP

	 Eng. Jacinta Mwangi, KURA Eng. Fanuel Kalugendo, DART Sheila Uwase, City of Kigali 	
12:20	 Panel discussion on public transport finance Babati Mokgethi, AfDB Akiko Kishiue, World Bank Ann Masiga, EIB Eng. Albert Keno, County Government of Mombasa Daniel Essel, Ministry of Transport, Ghana 	Moderated by Chris Kost, ITDP
13:20	Group photo	
13:30	Lunch	
14:15	Sheger Riverside Project overview	Babati Mokgethi, AfDB
14:30	Sheger Riverside Project: Site visit and scoring	Renata Cavarlho, ITDP
14:45	Site visit: Sheger Riverside Project	Facilitated by Abel Estifanos, UN- Habitat/Regatu Solomon, ITDP
16:00	Return to the hotel	Abel Estifanos, UN-Habitat/ Regatu Solomon, ITDP
20:00	Dinner at the hotel	·

Day 2: Thursday, 10 August 2023

Moderated by Cecilia Andersson, UN-Habitat

Time	Activity	Responsible	
08:20	Recap of Sheger Riverside site visit	Renata Cavarlho, ITDP	
08:30	Recap and closing remarks	Robert Lisinge, Chief of the Energy, Infrastructure and Services Section, UNECA	
08:40	Introduction to day 2	Ishaku Maitumbi, UN-Habitat	
Complete streets, inclusivity, and community driven development			

08:45	Pan-African Action Plan for Active Mobility (PAAPAM): Embedding financial strategies for walking and cycling	Janene Tuniz, UNEP
09:10	The role of the federal government in financing urban streets in secondary cities	Fetiya Degdeba, Road Safety and Insurance Fund Service, Ethiopia
09:30	Launch of the Ethiopia Street Design Manual	Fetiya Degdeba, Road Safety and Insurance Fund Service, Ethiopia
09:40	 Panel discussion: Financing public spaces in African cities Eng. Geoffrey Tirop, Nairobi City County Mumina wa-Kyendo, AfDB Michael Abala Wanga, City of Kisumu Dr Manuel de Araujo, Mayor, Quelimane Eng. Geoffrey Mkinga, Tanzania Rural and Urban Roads Agency 	Moderated by Gashaw Aberra, ITDP
10:40	Tea break	
Integrated	d urban planning: Financing transit-oriented deve	lopment through land value capture
11:00	 Integrating land use planning, urban infrastructure upgrades, and affordable housing Eng. Benjamin Njenga, Secretary Ministry of Lands, Public Works, Housing, and Urban Development Mohammed Kuganda, DART Babati Mokgethi, AfDB 	Moderated by Maureen Kinyua, ITDP
11:50	Churchill Avenue design and implementation process	Architect Bisrat Kifle, BKW Architecture and Engineering, Plc.
12:10	Lunch	

13:20	Depart for site visit: Churchill Ave complete street corridor • Cycling group • Walking group	Gashaw Aberra/Chris Kost, ITDP	
Implement	ation & next steps		
15:00	Conference recap in group sessions	Carolyne Mimano, ITDP	
15:30	Group presentations	Carolyne Mimano, ITDP	
16:00	Closing remarks	Cecilia Andersson, UN-Habitat	
Evening	Delegates depart	-	

4.2 DELEGATE LIST

Table 1: Conference delegates.

Country	Organisation	Name	Position/ Department	Contact
Tanzania	Dar Rapid Transit (DART) Agency	Dr Edwin Mhede	CE	ce@dart.go.tz
	Dar Rapid Transit (DART) Agency	Eng. Fanuel Kalugendo	Director of Transportation Development	fanuel.kalugendo@d art.go.tz
	Dar Rapid Transit (DART) Agency	Mr Mohamed Kuganda	Transport Planning Manager	mohamed.kuganda@ dart.go.tz
	TARURA	Eng. Geofrey Mkinga	Regional Manager	geofrey.mkinga@taru ra.go.tz
	Regional Administration and Local governments	Eng. Rogatus Mativila	Deputy Permanent Secretary	husseinmativila8@g mail.com
Rwanda	MININFRA (Ministry of Infrastructure)	Fabrice Barisanga	Director General in charge of Transport	fabrice.barisanga@m ininfra.gov.rw
	MININFRA (Ministry of Infrastructure)	Janvier Twagirimana	Chief Technical Advisor in charge of Transport	alfred.byiringiro@mi ninfra.gov.rw
	City of Kigali	Vedaste Mazimpaka	Senior Engineer Road development	vmazimpaka@kigalic ity.gov.rw
	City of Kigali	Uwase Sheila	Senior Engineer, Urban Traffic Management	suwase@kigalicity.go v.rw
Kenya	Nairobi Metropolitan Transport Area Authority (NaMATA)	Eng John Githui	Director, Projects and Programmes	githui2008@gmail.co m

Country	Organisation	Name	Position/ Department	Contact
	Kenya National Highways Authority (KeNHA)	Eng Ezekiel Fukwo	Director Highway Safety and Design	e.fukwo@kenha.co.k e
	Nairobi City County	CEC Patrick Mbogo	Chief Executive Committee Member, Mobility and Works	patmbogo1@gmail.c om
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	Ministry of Roads and Transport	Mr Kingori	Director, State Department for Transport	kingoripkk@gmail.co m
	Ministry of Lands, Public Works, Housing & Urban Development, KE	Eng Benjamin Kahura Njenga	Secretary, State Department for Housing and Urban Development	faimacon@yahoo.co m
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	County Government of Mombasa	Eng Albert Keno	Chief Officer, Transport and Public works	kenoalbert.eng@gma il.com
	County Government of Mombasa	CEC Daniel Manyala	Chief Executive Committee Member, Transport and Public Works	manyala.daniel@gm ail.com
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Ethiopia	Road Safety and Insurance Fund Service	Ms. Fetiya Degdeba	Deputy Director	fetiyadedgaba@gmai l.com
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	Ministry of Transport and Logistics, Ethiopia	H.E. Berio Hassen	State Minister, Ministry of Transport and Logistics	bar.hassen@gmail.co m
	BK Architecture and Engineering plc.	Architect Bisrat Kifle	Lecture at EiABC and Manager of BK consulting	Bisratkw@yahoo.com
	Addis Ababa Transport Bureau (AATB)	Mohammed Hussein	Gashaw Aberra add the designation	bluehorizon.mh@gm ail.com
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	Ministry of Urban Development and Infrastructure	Dr Abayneher	General Manager for the Planning Division	ggeyesus@gmail.com

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UN-Habitat (Kenya & Ethiopia)	UN Habitat	Cecilia Andersson	Programme Management Officer, Urban Mobility	cecilia.andersson@u n.org

Country	Organisation	Name	Position/ Department	Contact
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Development partners	AfDB	Babati Mokgethi	Urban Lead for East Africa	b.mokgethi@afdb.or g
	World Bank	Akiko Kishiue	Senior Urban Transport Specialist	akishiue@worldbank .org
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4.3 CONFERENCE PRESENTATIONS & PUBLICATIONS

- 1. Conference presentations: <u>https://go.itdp.org/display/public/Conference+on+financing+for+sustainable+transport+a</u> <u>nd+urban+development+-+Presentations+230809</u>
- 2. Conference pictures: https://www.flickr.com/photos/143669485@N05/albums/72177720310470463
- 3. Conference publications:
 - <u>Why Infrastructure Matters: Active Mobility, Public Transport and Economic Growth</u>
 - Quick Guide to Bus Sector Modernisation in English and French
 - <u>Gender-Sensitive Design for the Cairo BRT</u>
 - Kisumu Sustainable Mobility Plan
 - <u>Street Design Manual for Urban Areas in Kenya</u>