



HIGH VOLUME
TRANSPORT
APPLIED RESEARCH



Powering Change: Developing infrastructures in Africa that are resilient, greener and inclusive

MARCH 2024 | AGENDA

Powering Change: Exploring the latest research for developing infrastructures in Africa that are resilient, greener and inclusive.

08:30 - 09:00

Refreshments

09:00 - 10:30

Data and Evidence - the bedrock of decisions and planning

Welcome and introduction to the High Volume Transport Applied Research Programme **Neil Ebenezer, Team Leader, HVT**

[Africa Urban Mobility Observatory \(AUMO\)](#), **Justin Coetzee, GoMetro**, is looking to promote inclusive, low-carbon mobility in African LIC cities by piloting BIG Data applications to generate data, benchmark performance, and draw policy insights. The project recognises that many sub-Saharan African cities have limited access to data about people's movements and modes of transport because they lack adequate funding and capacity to obtain the data.

Computer vision for public transport, Sierra Leone, Giles Lipscombe, ITP is developing a data collection tool that uses computer vision from many different sources such as dashcam footage from city buses and taxi drivers, to see what transport is like in specific areas, and where people are walking and cycling.

Tackling Africa's road safety and emissions from the source, Uganda, Michael Wanyama, AutoSafety are looking to improve the very limited data on the 2million+ vehicles in Uganda that are 90% imported, running on poor roads with no inspections and often more than 15 years old. Through this evidence the project aims to improve the safety of older vehicles in Uganda and inform policy on transport safety and pollution control.

10:30 - 11:00

Refreshments

11:00 - 13:00

Developing climate resilient and low carbon transport in Africa – opportunities and challenges

Introductions

[Decision Support Systems for Resilient Strategic Transport Networks in Low Income Countries](#), from University of Southampton and Oxford University and case study presented by Mbayang Thiam, UAD. This project has provided transport decision-makers in LMICs with tools enabling them to prioritise interventions that deliver sustainable and climate change resilient long-distance transport networks.

This session will share insights from the project's data collection and visualisation, as well as highlighting innovative approaches that have been used to collect data.

[Road Note 31](#), Andrew Otto and Angella Lekea, TRL, gives recommendations for the structural design of surfaced roads in tropical and sub-tropical regions. It is aimed at highway engineers responsible for the design and construction of new road pavements and pavement rehabilitation. Since its last update 20 years ago, much has changed especially the intense pressure on roads from the climate change crisis. This edition incorporates major improvements and changes of emphasis resulting from changes in materials, climate, and usage of the roads.

[City Retrofit](#), Carolyn Mimona, ITDP, outlines this HVT project seeking to understand how transit-oriented development has been pursued in LMICs and what can be learned from those efforts. How can informal settlements be retrofitted in LICs? What are the most effective strategies to integrate transport and land-use planning that lead to better more affordable mobility?

[Transitions](#), in informal public transport and the role of Inclusive Interchanges, LAMATA and SLR, Tim Durant, Vectos and Seun Sonoiki, LAMATA. Two related HVT projects have set out to understand how we can better enable a more efficient, low carbon and safe transport network for the cities of Sub-Saharan Africa, working proactively with the Informal Public Transport (IPT) sector and recognising the important role that the design of interchanges could play. The TRANSITIONS project undertook research in the five cities of Accra, Kumasi, Freetown, Cape Town and Maputo and developed a Routemap tool, which highlights infrastructure provision as an important contributor for the improvement of IPT services. This work inspired the Inclusive Interchanges project, which is investigating with Lagos Metropolitan Area Transport Authority (LAMATA) how public transport interchange designs can be enhanced, having regard to the needs of both the formal and informal sectors.

12:35 - 13:00

Panel Discussion: Unlocking low carbon, climate resilient transport in African Cities

13:00 - 14:00

Lunch

14:00 - 15:00

The Future: Developing innovative and resilient infrastructure in Africa tailored to a cities needs

- Lightning presentations presenting the very latest research shaping future infrastructure in Africa:
- Novel traction systems for railway futures, the hydro-train, Professor Stuart Hillmansen, University of Birmingham
- Cycling and active mobility, Gail Jennings, independent consultant
- Walking at the heart of transport, Carly Koinange, UNEP
- The Transport Decarbonisation Index, SLOCAT
- Access to Climate Finance, WRI

15:00 - 15:30

Refreshments

15:30 - 17:00

A just transition – greener transport must be inclusive

Introductions

Keynote: Bright Oywaya has been passionately advocating for issues related to road transport and safety and disability since 1997 when she was involved in a road crash, causing disability that resulted in her having to use a wheelchair. She has worked in various positions in different organizations, including the National Transport and Safety Authority (NTSA) in Kenya where she served as the Vice Chairperson for six years. And as a board member at the International Road Victims Partnership, and the Vice Board chairperson for the Association for the Physically Disabled of Kenya. In recent years she worked at ASIRT Kenya as Executive Director, where issues of inclusion for road crash victims were at the center of her work. Her advocacy work is both at national and global levels.

She Can tool, Seun Sonoiki, LAMATA. The SHE CAN tool (SHE CAN representing Sexual Harassment Engagement Changing Attitudes meeting Needs) is a user-friendly online decision-support tool designed for urban transport planners and related stakeholders to give them a better understanding of the sexual harassment that women face when they travel in African cities. It aims to guide them from problem definition to a package of measures that can be implemented to counter them.

Overseas Road Note 21 – Enhancing the Mobility of Disabled People: A Guidelines for Practitioners. Tom Fleming, ITP. A guide to improving the ability of people with disabilities to have greater access and mobility in their daily lives.

Safety and Mobility Challenges for Persons with Disabilities living in Mekelle City, Mekelle University. This research explores existing services and how people with disabilities are being served by them, in order to identify and rate the safety and mobility challenges of people with disabilities and to identify the transport-related socio-economic problems of people with disabilities.

Using Creative Participatory Approaches for Inclusive Climate Resilient Transport in Africa. Gary Haq, SEI and the University of York. This research summarises key concepts around transport inclusion, participation, and climate change. It introduces selected creative methods that can give a voice to disadvantaged groups.

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