





Travel Demand Management Symposium (2023

THEME

Global Challenges and TDM: Opportunities for Future Development

- 🛗 **18th** Sep 2023 **20th** Sep 2023
- 6 8:00 AM
- Amonoo-Neizer Conference Centre, KNUST, Kumasi (IDL Conference Centre)











TRAVEL DEMAND MANAGEMENT SYMPOSIUM TDM'23

TDM 2023 Kumasi at a Glance

GMT	Monday, September 18		Tuesday, S	eptember 19	Wednesday, September 20	
08:00	Arrival and Registration		Regis	tration	Registration	
			Keynote		Keynotes	
09:00			Plenary Session:			
10:00	Opening Ceremony		Era: Has Technology Ch	ansportation in a Digital anged Our Transportation stem?	Plenary Session:	
			Cocoa Break		Session VII - Modelling Travel Behaviour and TDM: Success Stories?	
			Keynote			
11:00	Cocoa Break	/Photography	Plenary Session:			
	Key	note		, 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	Coffee Break	
	Paralle	l session	Session V - TDM and Women's Emerging Travel		Keynote	
12:00			Pat	terns	Plenary Session	
	Session I.A - TDM in the Age of New Mobility	Session I.B - TDM and Traffic Safety	Lunc	h Break	Session VIII - TDM, Internet of Things, and Travel Behaviour	
14:00	Options	Strategies	Кеу	notes	Lunch Break	
		Lunch Break		l session:	Keynotes	
15:00	Plenary	y Session				
	Session II - Climat	e Change and TDM	Session VI.A- Transport Poverty	Beyond the Conventional		
16:00		a Break	Transportation Problems		Panel Discussion	
	Plenary	Session:	Cocoa Break			
17:00	Session III - TDM and Clean		Workshop for C	Graduate Students	Closing Remarks	
		sons for the Next rations	Closing Remarks and Closure for Second Day			
18:00	Closing Remarks for Day 1					
18:30			Akwaaba to As	santeman Dinner		
21:00			ARWaaba to As			

PROGRAM OUTLINE



DAY 1: MONDAY 18TH SEPTEMBER 2023

Arrival and Registration 8:00 - 9:00

Opening Ceremony (Main Auditorium) 9:00 - 10:00

Chair: Prof. Yaw Adubofour Tuffour, TRECK, KNUST

OPENING CEREMONY

10:30 - 11:00 Cocoa Break / Photopgraph							
	Plenary Session (Main Auditorium)						
11:00	11:25	A TOP AND A TOP A TOP AND A TOP A TOP AND A TOP A TOP AND A TOP A TOP AND A TOP A TOP AND A TOP A TOP A TOP AND A TOP A TO					
		Chair: Dr. Thomas Kolawole Ojo, University of Cape Coast (UCC), Ghana					
11:00	11:25	Keynote Speaker	TDM: Why it is even more critical in an age of new mobility options	Chandra Bhat , Joe J. King Endowed Chair Professor in Engineering, The University of Texas at Austin, USA			
	Parallel Session (I.A & I.B)						
11:30	- 13:35	Session I.A	(Main Auditorium) - TDM in the Age of New I	Mobility Options			
		Chairs: Prof. Chan	dra Bhat, The University of Texas at Austin, USA/ Dr Thom	as Ojo, UCC, Ghana			
11:30	11:45		Challenges of public road transport systems in Ghanaian cities: a comprehensive analysis of governance, regulation, and service delivery	Randolf Wilson, Regional Transport Research and Education Centre Kumasi, KNUST			
11:45	12:00		Crowd estimation and prediction using wi-fi sensor data: an on-campus experiment.	Stellah Namulindwa, Kyoto University, Japan			
12:00	12:15	TDM in the Age of	Comparative study of urban transport and accessibility patterns: a case study of three african port cities	Ismael A. Guirreh, African Centre of Excellence in Logistics and Transportation (CEALT), University of Djibouti , Djibouti			
12:15	12:30	New Mobility	Investigating mode choice for work trips in Osogbo, Nigeria	Emmanuel Bamiloye Oluwadamilola, Regional Transport Research and Education Centre Kumasi, KNUST			
12:30	12:45	Options	Causes of day-to-day travel time variability of paratransit trips: case of two paratransit routes in Kumasi.	George Ukam, Regional Transport Research and Education Centre Kumasi, KNUST			
12:45	13:00		Estimation of PCE factors for traffic at signalized intersections for capacity analysis in Monrovia	Miller Garmi, Regional Transport Research and Education Centre Kumasi, KNUST			
13:00	13:15		Assessing the Influence of Educational Attainment on Perceived Accessibility Level in Developing Coastal Cities: Case study of Djibouti city	Moktar I. Omar, African Centre of Excellence in Logistics and Transportation (CEALT), University of Djibouti , Djibouti			
13:15	13:45		Informal and shared mobility: current practices in Lagos Nigeria	Musa Bala, Nigerian Building and Road Research Institute (NBRRI), Nigeria			
13:30	14:00		Q & A				
11:30	:30 14:15 Session I.B (Syndicate Room) - TDM and Traffic Safety Strategies						
	Chairs: Prof. Enoch Sam, University of Education, Winneba / Prof. Grigorios Fountas , Aristotle University of Thessaloniki						
11:30	11:45		Road accident blackspot evaluation study on highways in the Eastern region of Ghana"	Elizabeth Arjarquah, Regional Transport Research and Education Centre Kumasi, KNUST			
11:45	12:00		Women's perception of safety in public space: the STEP UP project	Lamia Abdelfattah, Fondazione Transform Transport ETS, Italy			
12:00	12:15		Evaluation of commercial motorcycle operations and safety in Liberia: a case study of rural Lofa County, Liberia	Daniel Kpehe Bolay , Regional Transport Research and Education Centre Kumasi, KNUST			











12:15	12:30	TDM and Traffic	Effective trigger speeds for vehicle activated signs in the Scottish borders area	Adebola Olowosegun, Edinburgh Napier University		
12:30	12:45	Safety Strategies	Generating consensus on road safety issues and priorities in Ghana: A modified Delphi Approach	Daniel Hardy Wuaku, National Road Safety Authority		
12:45	13:00		Evaluation of the effectiveness of speed calming measures on some urban roads in Kumasi: an adoption of HSM crash modification functions.	Fatima Abdallah, Regional Transport Research and Education Centre Kumasi, KNUST		
13:00	13:15		An investigation into the causes of road traffic crashes In Montserrado County, Liberia	Leroy Leeleh, Regional Transport Research and Education Centre Kumasi, KNUST		
13:15	13:30		National road safety strategies in developing countries: post-implementation evaluation of the evolving Ghanaian national road safety strategy	Sunday Owonibi, Regional Transport Research and Education Centre Kumasi, KNUST		
13:30	13:45		Temporal and causal factors of bus crashes in Ghana	Marcos Aboagye, Regional Transport Research and Education Centre Kumasi, KNUST		
13:45						
14:15	15:15		Lunch Break			
			Plenary Session (Main Auditorium)			
15:15	15:40 Chair: Dr	. Bavero Salih Farah. Dire	Session II - Climate Change and TDM ector-General, Nigerian Institute of Transport Technology, Kwame Nkrumah Uni	versity of Science and Technology. Kumasi		
15:15	15:40	Keynote Speaker	What do we mean by climate action? Your role in making a change	Glenn Lyons, Professor of Future Mobility, University of the West of England, UK		
			Plenary Session (Main Auditorium)			
15:40	17:20	Session l	II - TDM and Clean Transport: Lessons for the Ne			
Parking Committee	No. of Contrast of Contrast		Chairs: Prof. Glenn Lyons , <i>University of the West of England, U</i>	K Emmanuel Dzisi, Regional Transport		
15:40	15:55	TDM and Class	Sustainable urban transport: barriers to active transport for work trips in the port city of Tema, Ghana	Research & Education Centre Kumasi, KNUST		
15:55	16:10	TDM and Clean	Spatial distribution of traffic air pollutant and risk of health burden for roadside dwellers exposure near trafficked intersection	Samuel Ajayi, Regional Transport Research and Education Centre Kumasi, KNUST Kodjo Djossou, Regional Centre of Excellence		
16:10	16:25	Transport:	Promoting sustainable urban mobility: cycling trends and challenges in developing cities - a comparative study of Tema, Lome, and Djibouti	for Sustainable Čities in Africa (CERVIDA), University of Lome, Togo		
16:25	16:40	Lessons for the Next Generations	Comparative assessment of congestion on major urban arterial road corridors in selected African cities using Google Map API. (Dar es Salaam, Lagos, Accra, Kumasi).	Abdul-Rahman Mohammed, Regional Transport Research and Education Centre Kumasi, KNUST Kumasi.		
16:40	16:55	Next Generations	Sustainable urban mass transit in a green economy	Sunday Agu, Nigerian Institute of Transport Technology, Zaria		
16:55	17:20		Q & A	State Control of the		
17:20	17:35		Cocoa Break			
17:35	17:50		Closing Remarks for Day 1			
		DAY 2:	TUESDAY 19TH SEPTEMB	ER 2023		
08:00	08:30		Registration			
			Plenary Session (Main Auditorium)			
08:30	08:30 08:55 Keynote					
	1102	Chairs: I	Or. Asenso Gyambibi, CSIR Building and Road Research Institute	(BRRI), Kumasi		
08:30	08:55	Keynote Speaker	Preference for internet-based ride hailing (Uber And Bolt) and hired taxis services in Ghana	Thomas Ojo, University of Cape Coast		
Ĭ.			Plenary Session (Main Auditorium)			
08:55 10:05 Session IV - Public Transportation in a Digital Era: Has Technology Changed Our Transportation System?						
		Chairs: D	or. Asenso Gyambibi, CSIR Building and Road Research Institute (
08:55	09:10	Public Transportation in a	Long-term evaluation of Warsaw (Poland) bus lanes - ridership and attitude Dublic transport terminals and routes and their impact on	Wojciech Szymalski, Institute for Sustainable Development Foundation, Poland		
09:10	09:25	Digital Fra	Public transport terminals and routes and their impact on equitable access to socioeconomic opportunities in Ghana	of Science & Technology, Kumasi, Chana		
09:25	09:40	Transportation System?	Modeling travel mode shift to light-rail on the Abuja-Kaduna corridor, Nigeria	"Ayodele Salami, Nigerian Institute of Transport Technology (NITT), Zaria "		
09:40	10:05		Q & A			
10:05	0:05 10:20 Cocoa Break					
			Plenary Session (Main Auditorium)			

10:20 11:10 Keynote						
	Chair: Prof. Abena Obiri-Yeboah, Kumasi Technical University, Ghana					
10:20	10:45	Keynote Speaker	Women travel behaviour and TDM strategies: much fruitful outcomes?	Wafaa Saleh , Professor of Transport Engineering, Edinburgh Napier University, UK		
10:45	11:10	Keynote Speaker	A white paper on fairness and inclusivity in mobility. Evaluating services against user needs	Chiara Leva Maria, Technological University Dublin, Ireland		
			Plenary Session (Main Auditorium)			
11:10	12:35	Ch	Session V - TDM and Women's Emerging Travel Patterns air: Prof. Abena Obiri-Yeboah, Kumasi Technical University, Gl	200		
11:10	11:25	Cri	Conceptualisation of safe-access for women on public transport	Ajeni Ari, Technological University Dublin, Ireland		
11:25	11:40	TDM and Women's	Exploration of travel demand management strategies for developing countries - assessing best practices for adoption in a case study of Accra, Ghana	William Amanor, TRECK, KNUST & Cape Coast Technical University, Cape Coast, Ghana		
11:40	11:55	Emerging Travel Patterns	Analysis of women accessibility and utilization to public transport services in Gusau LGA, Zamfara State, Nigeria	Badiru Abdulhakeem, Participant - Professional, Nigeria		
11:55	12:10	,	Investigating urban mobility challenges of women in freetown, Sierra Leone	Mary Kargbo, Fourah Bay College University of Sierra Leone,Freetown, Sierra Leone		
12:10	12:35		Q & A			
12:35	13:35		Lunch Break			
			Plenary Session (Main Auditorium)			
13:35	14:50		Keynotes			
13:35	14:00	Chairs: Prof. Clif Keynote Speaker	ford Amoako, Kwame Nkrumah University of Science and Tec On-demand meal delivery: The ghost kitchen location problem	hnology, Kumasi Michael Bell, Professor of Ports & Maritime Logistics, Institute of Transport and Logistics Studies, University of Sydney, Australia		
14:00	14:25	Keynote Speaker	Researching transport poverty with informal settlers in the African context	Karen Lucas, Professor of Human Geography & Director of Research, Manchester Urban Institute, University of Manchester, UK		
14:25	14:50	Keynote Speaker	Eradicating transport poverty from the ground up	Karel Martens (Invited Speaker), Professor of Transport Planning, Faculty of Architecture and Town Planning, Technion - Israel Institute of Technology		
			Parallel Session (VI.A & VI.B)	israer in structe or reer intology		
14:55 16:20 Session VI.A (Main Auditorium) - Transport Poverty						
		C. Dr. Ciffer Adams A				
		s. Dr. Girty Adom-A	samoah, KNUST, Ghana/ Dr. Chiara Leva Maria, Technological			
14:55	15:10	Transport Poverty	Women's perception of public transport in Ghana: challenges and opportunities for a women-friendly system	University of Dublin, Ireland Augustus Ababio-Donkor, Regional Transport Research and Education Centre Kumasi, KNUST		
14:55 15:10			Women's perception of public transport in Ghana: challenges and opportunities for a women-friendly system Transport poverty scoreboard for the European Union	Augustus Ababio-Donkor, Regional Transport Research and Education Centre Kumasi, KNUST Cornelia-Madalina Suta, Cambridge Econometrics, Belgium		
V. 10000000	15:10		Women's perception of public transport in Ghana: challenges and opportunities for a women-friendly system	Augustus Ababio-Donkor, Regional Transport Research and Education Centre Kumasi, KNUST Cornelia-Madalina Suta, Cambridge Econometrics, Belgium "Juan Nicolás Ibáñez, European Commission, Joint Research Centre (JRC)		
15:10	15:10 15:25		Women's perception of public transport in Ghana: challenges and opportunities for a women-friendly system Transport poverty scoreboard for the European Union Public and private transport accessibility analyses with a	Augustus Ababio-Donkor, Regional Transport Research and Education Centre Kumasi, KNUST Cornelia-Madalina Suta, Cambridge Econometrics, Belgium ''Juan Nicolás Ibáñez, European		
15:10	15:10 15:25 15:40		Women's perception of public transport in Ghana: challenges and opportunities for a women-friendly system Transport poverty scoreboard for the European Union Public and private transport accessibility analyses with a socioeconomic perspective Transport related inequalities in the sustainable transition	Augustus Ababio-Donkor, Regional Transport Research and Education Centre Kumasi, KNUST Cornelia-Madalina Suta, Cambridge Econometrics, Belgium "Juan Nicolás Ibáñez, European Commission, Joint Research Centre (JRC) Giulio Mattioli, Research Fellow, Urban Development Research Group, Department		
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DAY 3: WEDNESDAY 20TH SEPTEMBER 2023

08:00	08:30	Registration				
	00.50	Plenary Session (Main Auditorium)				
08:30	09:20	Keynote				
	Chair: Prof. Emmanuel Akowuah , Kwame Nkrumah University of Science and Technology, Kumasi					
08:30	08:55	Keynote Speaker	The importance of habit and perceptions in understanding the choice of unsustainable modes	Juan de Dios Ortúzar, Emeritus Professor, Pontificia Universidad Católica de Chile, Chile		
08:55	09:20	Keynote Speaker	Public transport in a digital era	John Nelson, Chair in Public Transport, Institute of Transport and Logistics Studies, University of Sydney, Australia		
09:20	09:20 11:20 Session VII - Modelling Travel Behaviour and TDM: Success Stories? Chairs: Prof. Emmanuel Akowuah, KNUST/ Prof. Juan de Dios Ortúzar, Pontificia Universidad Católica de Chile					
09:20			Influence of socio-demographic characteristics on mode of travel	Collins Abrefah Nketiah, Regional Transport		
		Modelling Travel	for work trips in the port city of Tema, Ghana Macroscopic Traffic Flow Model Considering Timid and	Research and Education Centre Kumasi, KNUST		
09:35	09:50	Behaviour and	Aggressive Driver Behavior, and Lateral Viscosity	Gabriel Obed Fosu, Kwame Nkrumah University of Science amd Technology		
09:50	10:05	TDM: Success	Commuter Behavioural Intention in Travel Mode Choice to and from the CBD of Kumasi	Kobina Amo-Aidoo, Regional Transport Research and Education Centre Kumasi, KNUST		
10:05	10:20	Stories?	Who is more likely to be affected by the cost-of-living crisis? An exploratory analysis of changes in travel habits in Scotland	Grigorios Fountas, Aristotle University of Thessaloniki		
10:20	10:35		Modelling aberrant behavior of drivers using the Manchester Driver Behaviour Questionnaire (DBQ) in Sierra Leone	Amadu Kabia, Regional Transport Research and Education Centre Kumasi, KNUST		
10:35	10:50		Modeling aberrant behavior of drivers using the Manchester Driver Behaviour Questionnaire (DBQ) in Liberia	Zunu Kokolo Duyann, Regional Transport Research and Education Centre Kumasi, KNUST		
10:50	11:20		Q & A			
11:20	11:35		Coffee Break			
			Plenary Session (Main Auditorium)			
11:35	12:00	Chair In	Keynote	in a a vin a (ChIE)		
11:35	12:00	Keynote Speaker	g. Kwabena Bempong, President of Ghana Institution of Eng. The challenges of urban tourism demand management:	Jan-Dirk Schmöcker, Associate Professor, Dep.		
11.55	12.00	Reynote Speaker	concepts, data and the use of gamification	of Urban Management, Kyoto University, Japan		
12:00	14:00		Session VIII - TDM, Internet of Things, and Travel Behavio			
12:00	12:15	Chairs: Ing.	Kwabena Bempong, GhIE / Prof. Jan-Dirk Schmoecker, Kyoti Assessing the determinants of feeder service provision using	o University, Japan Simeon Stevenson Turay, Regional		
			revealed preference data: a pilot paratransit drivers perspective with machine learning approach	Transport Research and Education Centre Kumasi, KNUST		
12:15	12:30		Estimating passenger demand using machine learning models: a systematic review	Adjei boateng, Regional Transport Research and Education Centre Kumasi, KNUST		
12:30	12:45		Development of a smartphone-based road condition assessment system	Enoch Enning, Kwame Nkrumah University of Science and Technology, Kumasi		
12:45	13:00		Assessing time dependent paratransit fare affordability using Lorenz curves And Gini coefficients.	Stellah Namulindwa, Kyoto University, Japan		
13:00	13:15		Exploring car dependence in Lombardy, Italy: a bivariate maps case study approach	Jaime Sierra Muñoz, Politecnico di Milano Department of Architecture and Urban Studies& European Commission Joint Research Centre		
13:15	13:30		Smart cockpit: efficient travel demand recognition with large language model	Qi Yu, Tongji University, China		
13:30	14:00		Q & A			
14:00	15:00		Lunch Break			
15:00	15:50		Plenary Session (Main Auditorium) Keynotes			
		r: Prof. Daniel Atuah	Obeng, Kwame Nkrumah University of Science and Technology, Cha	na Institution of Engineering (GhIE)		
15:00	15:25	Keynote Speaker	The nexus of rapid urbanisation, mobility, accessibility and public health in African cities	Charles A. Adams, Regional Transport Research and Education Centre Kumasi, KNUST		
15:25	15:50	Keynote Speaker	Kumasi Bus Rapid Transit project: Lessons learnt from Accra Ayalolo Service	I ng Nana Poku & Randolf Wilson, Kumasi Metro Assembly (KMA)		
15:50	0 17:10 Panel Discussion					
		hairs: Prof. Daniel Atuah Obeng, KNUST/ Ing. Naa Lamkai Quaye Ballard, CSIR -Building and Road Research Institute, Kumasi				
15:50	17:10	Panel Discussion	Journeying towards inclusive mobility: overcoming urban and intercity public transport challenges in Ghana	Panel Members: Reps of State Transport Corperation (STC), Metro Mass Transit Company Ltd, Building and Road Research Institute-Kumasi, Ghana Private Road Transport Union (GPRTU), KMA, World Resource Institute		
17:10	17:40		Closing Remarks			