











INNOVATION AND KNOWLEDGE SHARING CONFERENCE PROGRAM

Conference Day One, 14th September, 2023








Venue: Barabara Plaza, Auditorium, KeNHA Headquarters

TIME	ACTIVITY	FACILITATOR (S)
8:00 am - 8:30 am	Registration	Ushers
8:30 am - 8:35 am	Opening Prayer	Mr. Geoffrey Nyamasege
8:35 am – 8:45 am	Introductory Remarks	Eng. J. Njuguna Gatitu, D-PRC
8:45 am - 9:00 am	Opening Remarks	Eng. Kungu Ndungu, DG
	Opening Remarks	Ms. Winfrida Ngumi, Chairperson, BoD, KeNHA
9:00 am - 9:30 am	Chief Guest Speech Official Opening of the Innovation and, Knowledge Sharing Conference and Launch of the “KeNHAVATE” and Central Knowledge Repository	Chief Guest: Hon. Kipchumba Murkomen, EGH <i>Cabinet Secretary, Ministry of Roads and Transport</i>
9:30 am - 10:00 am	Keynote Address: Innovation and Knowledge Sharing for sustainable management of road infrastructure	Dr. Kamau Gachigi , Executive Director, Gearbox and Lecturer, Mechanical and Manufacturing Engineering, University of Nairobi
10:00 am - 10:10 am	Remarks	Annastacia Kimtai, Managing Director, KCB Kenya
10:10 am - 10:20 am	Remarks	David Nyamu, Director Public Sector & Institutions, Equity Bank
10:20 am - 10:40 am	Refreshments/Health Break	
SUB-THEME – MODERN ROADS CONSTRUCTION MATERIALS AND TECHNOLOGIES		
10:40 am - 10:50 am	Sprayco Armaseal bitumen emulsion for road surface rejuvenation	Takis Lazarou
10:50 am - 11:05 am	Application of Geosynthetics to build very high volume traffic roads with heavy loads	Admir Technologies Kenya Ltd (Eng. Anthony Kimotho, Eng. Brian Okello)
11:05 am - 11:20 am	Bridge management system	Annette Aming’a, HDS






11:20 am – 12:00 pm	MODERATOR – Eng. Howard A.M.	PANELIST	 Andrew Otto, Practice Lead, International Pavement Engineering TRL  Eng. Fidelis Sakwa, Head of Innovation & Technical services Bamburi Cement Ltd (Lafarge)  Kenneth Mukura, Principal International Consultant TRL (Materials Expert)  Eng. John Maina, Consulting Engineer, Materials Expert
SUB-THEME – ROAD QUALITY AND SAFETY			
12:00 pm - 12:15 pm	Using Kenyan-Made Innovative Cat-Eyes (Road Studs) to improve night driving visibility and provide advance warnings		Antony Kirori
12:15 pm - 12:30 pm	Automation of Axle Load Control and virtual Weighbridge		Eng. Kennedy Ndugire, Maintenance
12:30 pm - 12:45 pm	High Tension cable barriers (HTCB), Gilgil Corridor Office, KeNHA		Nelly Linda Mule
12:45 pm - 1:00 pm	Integration of Vibratory Sensors in Critical road infrastructure to minimize vandalism		Otieno Kelton Edmond & Mukuha William Mburu
1:00 pm - 1:40 pm	MODERATOR – Eng. Karot Ouma	PANELIST	 Eng. Monica Abonyo, Deputy Director, Highway Safety KeNHA  Eng. (Dr) Timothy Okech, Principal Consultant (TIMCON)  Safety Expert,  Eng. Christine Ogut, Ag Director Motor vehicle inspection & Safety Audits NTSA
1:40 pm - 2:40 pm		Lunch	
SUB-THEME – VALUE FOR MONEY			
2:40 pm - 2:55 pm	Integration of GIS in Highway Management		Alice Gaceri, HDS
2:55 pm - 3:10 pm	Towards Enterprise Risk management		Esther Kebaya, PRC
3:10 pm - 3:25 pm	Road assets maintenance and performance of road Agencies in Kenya		Catherine Kimani (KeNHA)



3:25 pm - 3:40 pm	Roads Maintenance Strategies and Road Pavement Performance: Case Study of KURA, KERRA, & KeNHA roads between 2018-2022		O. J. Owuor, KURA
3:40 pm - 4:20 pm	MODERATOR – Eng. Grace Muna	PANELIST	 Jeanne Mathenge, President PMI Kenya Chapter ,  Eng. Ken Nyakuti, Deputy Director Development KeRRA  David Nyamu, Equity Bank
4:20 pm - 4:50 pm Refreshments			
Conference Day Two, 15th September, 2023 Venue: Barabara Plaza, Auditorium, KeNHA Headquarters			
TIME	ACTIVITY		FACILITATOR (S)
8:00 am - 8:30 am	Registration		Ushers
8:30 am - 8:35 am	Opening Prayer		Patrick Mbithi
8:35 am - 9:00 am	Introductory Remarks		Eng. Clarence Karot
9:00 am - 9:30 am	Keynote Address: Innovation and Knowledge Sharing for sustainable management of road infrastructure		Prof. Eng. Francis Aduol, PhD Former Vice Chancellor, The Technical University of Kenya
SUB-THEME – REVENUE GENERATION			
9:30 am - 9:45 am	Congestion Pricing & BRT		Gideon Kahindi Muratha
9:45 am - 10:00 am	Current Status and lessons learnt on implementation of PPP		Julie Ondeyo, PPP
10:00 am - 10:15 am	Innovation and the future of logistics		Dr. Julius Gatune, Maastricht University
10:15 am - 10:55 am	MODERATOR – William Aketch	PANELIST	 Dr. Sammy Kimunguyi, Director Audit Services, KeNHA  Eng. Wilfred Oginga, Director, Urban Roads Development KURA ,  Eng. Mugweru Ndumbi, Assistant Director RSDC, KeNHA  KCB Representative



10:55 am - 11:15 am		Refreshments/Health Break	
11:15 am - 11:25 am	Presentation		Dr. Rakesh Rao, CEO Crown Paints Kenya Plc.
SUB-THEME – CLIMATE RESILIENCE			
11:25 am - 11:40 am	Causes of Fissures on Roads in Kenya: Case Study of Maai Mahiu - Narok Road		Dr. Eng. Simpson Osano (UoN), Eng. Victor Odula (KRB)
11:40 am - 11:55 am	Electric Roads – A Sustainable Engineering Technology		Eng. Rosana M. Clinton, PE, MIEK,
11:55 am - 12:10 pm	Utilizing Recycled Plastics in Road Construction		Doreen Njeri Karanja
12:10 pm - 12:25 pm	Climate Resilience in the road sector		Dr. Walter Nyatwanga, ESS
12:25 pm - 12:40 pm	Structural Health Monitoring for bridges: Embedded sensor based deformation using FEM & Artificial Intelligence		Paul S. Okoth, KURA
12:40 pm - 1:20 pm	MODERATOR – Eng. Howard A.M.	PANELIST	<div><div></div><div>Dr. Walter Nyatwanga, Deputy Director, ESS, KeNHA</div></div> <div><div></div><div>Dr. Elisha Akech, Engineering Consultant and Climate Expert</div></div> <div><div></div><div>Dennis Wakaba, Electric Mobility Expert</div></div>
1:20 pm - 1:30 pm	Way forward & Action for Implementation		Mr. Geoffrey Nyamasege
1:30 pm - 2:00 pm	Closing Remarks		<div><div>❖</div><div>Eng. Kungu Ndungu, <i>Director General, KeNHA</i></div></div> <div><div>❖</div><div>Ms. Winfrida Ngumi, <i>Chairperson, Board of Directors KeNHA</i></div></div> <div><div>❖</div><div>Mr. Mohamed Daghar, <i>Principal Secretary, State Department for Transport</i></div></div> <div><div>❖</div><div>Eng. Joseph Mbugua, <i>Principal Secretary, State Department for Roads</i></div></div>
	Closing Prayer		Carol Kiplagat
Lunch			
Guests Leave at their Pleasure			