



**The Ministry of Works,
Tanzania**



**Tanzania Transportation
Technology Transfer
(TanT²)**



**World Roads Association
(PIARC)**



**Tanzania Roads Association
(TARA)**

INTERNATIONAL SEMINAR ON TRANSPORT ASSET MANAGEMENT

FINAL ANNOUNCEMENT



9th - 11th APRIL 2025

Gran Melia Hotel, Arusha, Tanzania

Organized by:

The World Road Association (PIARC) in collaboration with the Ministry of Works in Tanzania through the Tanzania Roads Association (TARA) which is a National Committee of the World Road Association (PIARC) for Tanzania and other local and international institutions.

Supported by:



INTRODUCTION

The **World Road Association (PIARC)** in collaboration with the **Ministry of Works in Tanzania** through the **Tanzania Roads Association (TARA)** which is a National Committee of the World Road Association (PIARC) for Tanzania and other local and international institutions is organizing an **International Seminar on Transport Asset Management** to be held at **Gran Melia Hotel, Arusha, Tanzania from 9th to 11th April 2025**.

SEMINAR OBJECTIVES

The objectives of the International Seminar on Transport Asset Management are: -

- a) **Knowledge Exchange:** Facilitate dialogue among international experts to share insights and successful strategies in transport asset management.
- b) **Best Practices Dissemination:** Identify and share best practices tailored to the diverse contexts of participant countries.
- c) **Capacity Development:** Provide training to enhance the skills of professionals in the field.
- d) **Innovative Solutions:** Explore and propose innovative solutions to contemporary challenges in transport asset management.
- e) **Network Building:** Foster a network of stakeholders to enhance collaboration and partnerships in road transport initiatives.
- f) **Sustainability Focus:** Promote discussions on sustainable practices in transport asset management that consider environmental impacts.
- g) **Policy Recommendations:** Formulate actionable policy recommendations for effective transport asset management.
- h) **Future Readiness:** Prepare the transport sector for future challenges in transport asset management through foresight and strategic planning based on emerging trends and technologies.

COLLABORATING INSTITUTIONS/SUPPORTERS

About the World Road Association (PIARC)

The World Road Association (PIARC), known by its French acronym AIPCR, is a global forum for the exchange of knowledge and technology on roads and road transport policies and practices. Operating since 1909, PIARC boasts a long and distinguished history of facilitating international cooperation in the road sector. It brings together government representatives, experts, researchers, and professionals from around the world to share their experiences and expertise.

PIARC's mission is to foster and facilitate global discussion and knowledge transfer on all aspects of roads and road transport. It achieves this through technical committees, seminars, conferences, and publications. The association's work covers a wide range of topics, including road design, construction, maintenance, operation, safety, and sustainability. **You can find more information about PIARC, its activities, and its publications on its official website: <https://www.piarc.org/>**

About the Tanzania Roads Association (TARA)

The Tanzania Roads Association (TARA) serves as the national committee of the World Road Association (PIARC) within Tanzania. It plays a vital role in facilitating the exchange of knowledge and expertise related to road transport and infrastructure development within the country. TARA works to promote best practices in road design, construction, maintenance, and management, contributing to the overall improvement of Tanzania's road network and its positive impact on the nation's economy and connectivity.

TARA actively participates in PIARC's activities, contributing to the global knowledge base and leveraging international expertise to address local challenges. Furthermore, the association serves as a platform for local professionals to connect, collaborate, and learn from each other, strengthening the national capacity in the road sector. While specific details regarding TARA's own website are not available in the initial announcement, it is likely to be accessible through the Ministry of Works website or PIARC's national committee directory. For more information, please visit TARA's website <http://www.tara.org/>

About the Ministry of Works, Tanzania

The Ministry of Works in Tanzania is the government body responsible for overseeing the development, maintenance, and management of the country's infrastructure, including roads, bridges, and buildings. It plays a crucial role in facilitating transportation and connectivity across Tanzania, supporting economic growth and improving the quality of life for its citizens. The Ministry is responsible for formulating policies, setting standards, and ensuring the effective implementation of infrastructure projects throughout the nation.

By strategically planning and executing infrastructure development initiatives, the Ministry of Works contributes significantly to Tanzania's overall development goals. It works in collaboration with various stakeholders, including national and international organizations, to ensure that infrastructure projects are aligned with the country's long-term vision and priorities. To learn more about the Ministry of Works and its initiatives, you can visit their official website, which can be found through a general web search for "Ministry of Works Tanzania." please visit the Ministry of Works and Transport's website: <http://www.mow.go.tz/>

Tanzania Transportation Technology Transfer (TanT2) Centre

The Government of Tanzania through the Ministry of Works established the Tanzania Transportation Technology Transfer (TanT2) Centre in August 1997 whose mission is ***“To foster safe, efficient and environmentally sustainable transportation systems in Tanzania by improving skills and knowledge of transportation providers and users through training, technical assistance and technology transfer”***. TanT2 Centre is a unit under the Ministry of Works. The establishment of the Centre is an initiative that aims at improving transportation in the country at all levels through technology transfer. TanT2 Centre facilitates ways to enable users and providers of all modes of transport in the country to keep pace with the fast- changing transportation technology (www.tant2centre.or.tz).

Tanzania Rural and Urban Roads Agency (TARURA).

Tanzania Rural and Urban Roads Agency (TARURA) is an Executive Agency of the President's Office, Regional Administration and Local Government, (PO-RALG), established under Section 3 (1) Of the Executive Agencies Act. (Cap. 245) by Order published in Government Notice No.211 dated May 12, 2017; and was inaugurated on July 02, 2017. Tanzania Rural and Urban Roads Agency (TARURA) is vested with the responsibility of managing the development, rehabilitation, maintenance, axle load control; environmental and road reserve management of rural and urban roads network for the socio-economic development of Tanzania. (<http://www.tarura.go.tz/>)

Tanzania National Roads Agency (TANROADS)

Tanzania National Roads Agency (TANROADS) is an Executive Agency of the Ministry of Works established under the Executive Agencies Act No. 30 of 1997 responsible for management, development and maintenance of the trunk and regional road network in Tanzania. The aim of TANROADS is to provide cost effective and sustainable maintenance and development of the primary road network comprised of all trunk and regional road network to support the socio-economic development of Tanzania (www.tanroads.go.tz).

Roads Fund Board, Tanzania

The **Roads Fund** and **Roads Fund Board** were established by statutory instrument Road and Fuel Tolls Act CAP 220 (Revised edition 2006). The Board comprises of nine members, five from the private sector and four from the public sector. Pursuant to the law, the Board is mandated to ensure full collection of funds, disbursement and monitoring utilization of the same. Furthermore, the Act states that at least 90% of its funds should be used for maintenance and emergency repair of classified roads and related administrative costs and not more than 10% of its funds for roads development and related administrative costs in Mainland Tanzania. The Act also stipulates that “all administrative costs with regard to the Roads Fund Board shall be defrayed from the Roads Fund”. Funds are disbursed to implementing agencies such as Ministry of Works Tanzania National Roads Agency (TANROADS) for Trunk and Regional roads, the President’s Office Regional Administration and Local Government (PO-RALG), Tanzania Rural and Urban Roads Agency (TARURA) for roads under the Local Government Authorities (www.roadsfund.go.tz).

TRANSPORT ASSET MANAGEMENT: A CRUCIAL FOCUS

Transport asset management (TAM) involves a systematic process of maintaining, upgrading, and operating physical assets effectively and efficiently. It is crucial for improving road networks, ensuring public safety, and optimizing resources in Transport systems. This upcoming seminar will focus on various aspects of TAM, including the latest technologies, best practices in asset management, and strategies for informing decision-making processes.

As road infrastructure faces increasing challenges from aging assets, growing traffic demands, and environmental concerns, effective asset management becomes pivotal for national and local governments. By adopting comprehensive TAM practices, countries can enhance their road networks' sustainability, resilience, and overall performance.

CURRENT CHALLENGES IN TRANSPORT ASSET MANAGEMENT

In the current landscape, the transport sector faces multiple challenges that necessitate focused discussions and innovative solutions. The key challenges influencing transport asset management include: -

- a) **Aging Infrastructure:** Many countries are grappling with deteriorating road networks that demand urgent repair and maintenance.
- b) **Funding Shortages:** There exists a pressing need for adequate financial resources to support infrastructure projects, including the maintenance of existing assets.
- c) **Climate Change:** The impacts of climate change pose significant threats to transport infrastructure, necessitating sustainable and resilient planning.
- d) **Technological Advancement:** Rapid technological progress calls for integration of new technologies into transport asset management for improved efficiency and data-driven decision-making.
- e) **Data Management:** Efficient management and utilization of data related to road assets remain a challenge, affecting maintenance and investment strategies.
- f) **Capacity Building:** There is a critical need for enhanced skills and competencies among professionals involved in the transport sector.

SEMINAR TOPICS

The following sessions will be available at the seminar.

Day-1

Session 1: Renewal and Rejuvenation of Aging Transport Infrastructure

Session 2: Asset management for transport infrastructure resilience

Session 3: Asset Management Implementation – Case studies

Session 4: Panel Discussion – Transport Asset Management in Africa, Challenges and Opportunities

Day-2

Session 5: Innovative financing mechanism for road infrastructure

Session 6: Innovative Approaches to Data Collection and Analysis

Session 7: Building Information Modeling (BIM) in Transport Asset Management

Session 8: Panel Discussion - Making the most of transport asset management systems and tools.

SEMINAR PROGRAMME

Day - 1	Title	Speaker (Moderator)
8:30-9:00	Registration	
9:00-9:40	Opening session	Moderator- Eng. Abdul Awadhi - TARA Board Member
5min	Welcoming word from Host Country (PIARC National Committee)	Joseph Haule, Chair of the Tanzania Road Association (TARA) - Tanzania
10min	Institutional Presentation of PIARC	Go HIROCHI, PIARC General Secretariat
5min	Introduction from PIARC Technical Committee 3.3	Gerardo Flintsch, Chair of TC 3.3 - United States
20min	Official Opening from Tanzania (Ministry of Works)	Hon . Abdallah Ulega (MP), Minister for Works of the United Republic of Tanzania
9:40-10:00	Key Note Introductory session	Nazir Alli - Past President - World Road Association (PIARC)
10:00-11:15	Session 1 - Renewal and Rejuvenation of Aging Transport Infrastructure	Moderator : Rade Hadjn, TC 3.3 - Switzerland
15min	Renewal and Rejuvenation of Aging Transport Infrastructure	Pascal Trottier, TC3.3 - France
15min	A Road Database Management System for managing roads of all hierarchies in Tanzania	Joseph Chigalula, Roads Fund Board - Tanzania
15min	Road Asset Management the Namibia Experience	Sophie Tekei, Roads Authority of Namibia - Namibia
15min	Building Resilience in Road Networks Through Asset Management	Gursharan Gill, Independent Consulting Engineer - India
15min	Q&A and debate	
11:15-11:45	Break	
11:45-13:00	Session 2 - Asset management for infrastructure resilience	Moderator : Mehisi LEIGRI, TC 3.3 - Estonia
15min	Towards Sustainable Road Maintenance in Sub-Saharan Africa	Frederick Yaw Addo-Abedi, Regent University College of Science and Technology - Ghana
15min	Improving Network Resilience: An Australian Perspective	Michelle Baran, TC 3.3 - Australia
15min	Road Note 31	Andrew Otto, TRL UK - Tanzania
15min	Climate Resilient and Smart Infrastructure Policy Framework For Africa	Nkululuko Leta - Independent Consultant -South Africa
15min	Q&A and debate	
13:00-14:00	Lunch	
14:00-15:30	Session 3 - Asset Management Implementation – Case studies –	Moderator : Michelle van der Walt, TC 3.3 - South Africa
15min	Innovative Asset Valuation Approach for Roads and Bridges to Support ISO-55000 Planning in Tanzania	Donath Mrawira, TC3.3 - Tanzania,
15min	Innovative solutions to increase service life of unpaved roads	Pascal Trottier, TC 3.3 - France

15min	Transport Asset Management in Portugal	Adelino Ferreira, the Research Centre for Territory, Transports and Environment (CITTA) - Portugal
15min	JICA's Strategy for Road Asset Management	Taisuke MANIWA, Japan International Cooperation Agency(JICA) - Japan
30min	Q&A and debate	
15:30-16:00	Break	
16:00-17:30	Panel Discussion - Transport Asset Management in Africa, Challenges and Opportunities	Moderator : Gerardo Flintsch, Chair of TC 3.3, US
16:00-16:30	presentation about their practice about the topics as the introduction	3 slides maximum (Introduction, challenges, opportunities)
16:30-17:30	Panel Discussion	
	Paul Geck, TC 3.3 - New Zealand	
	Fabian Alejandro SCHVARTZER, TC 3.3 - Argentina	
	Donath Mrawira, TC 3.3 - Tanzania	
	Nedrick Godfrey, Tanzania Road Fund Board - Tanzania	
	Sophie Tekie, Nambia Road Authority - Nambia	
Day - 2		
8:30-9:00	Registration	
9:00-10:30	Session 4 - Innovation In Asset Management and Performamnce Management	Moderator : Fernando Varela, TC 3.3 - Spain
15min	Innovative financing mechanism for road infrastructure	Joseph Haule, Tanzania Roads Association (TARA) - Tanzania
15min	KPI for Asset Management – What is the right choice?	Rade Hadjn, TC 3.3 - Switzerland
15min	Innovation engineering solution for sustainable infrastructure	Pharles Ngeleja, Tanzania Rural and Urban Roads Agency (TARURA) - Tanzania
15min	Integrating Asset Management and System Performance: A Framework for Implementation	Omar Smadi, TC 3.3 - United States
30min	Q&A and debate	
10:30-11:00	Break	
11:00-12:30	Session 5 - Innovative Approaches for Data Collection and Analysis Part 1	Moderator- Eng. Abdul Awadhi - TARA Board Member
15min	Innovative approaches to data collection	QS Abubakar Jafo, Tanzania Rural and Urban Roads Agency (TARURA) - Tanzania
15min	Innovative asset data collection and analysis	Fernando Varela, TC 3.3 - Spain
15min	The journey of implementing RAMS for cross-agency asset management	Rashid KALIMBAGA, Tanzania Roads Fund Board - Tanzania
15mm	The importance of high-quality traffic data in asset management	Michelle van der Walt, TC 3.3 - South Africa

30min	Q&A and debate	
12:30-13:30	Lunch	
13:30-15:00	Session 6 - Innovative Approaches for Data Collection and Analysis Part 2	Moderator : Omar Smadi, TC 3.3 - United States
15min	Innovative Asset Deterioration Modelling where Historical Data is not Adequate	Donath Mrawira, TC3.3 - Tanzania
15min	From Data Silos to Smart Systems: Transforming Road Asset Management with iROADS	Bhavesh Jain, TRL Technologies - India
15min	Lessons in Adopting Lesser Cracks Measuring System (LCMS) in Different Road Classes	Ladislaus BIGAMBO - TANROADS, Tanzania
15min	Research and Application of Digital Intelligence Technology in Road Asset Management and Safety Enhancement In China	Hao Li, TC 3.3 - China
30min	Q&A and debate	
15:00-15:30	Break	
15:30-17:00	Panel Discussion - Making the most of Asset Management systems and tools	Moderator : Michelle Baran, TC 3.3 - Australia
15:30-16:00	5 mins presentation about their practice about the topics as the introduction	3 slides maximum (Introduction, challenges, opportunities)
16:00-17:00	Panel Discussion	
	Calado Ouana , TC 3.3 - Mozambique	
	Rade Hajdin, TC 3.3 - Switzerland	
	Gursharan Gill, Independent Consulting Engineer - India	
	Anthony Joshua Mugo- Kenya National Highways Authority - Kenya	
	TBC, World Bank	
17:00-17:30	Closing Remarks	Joseph Haule, Chair of the Tanzania Road Association (TARA) - Tanzania
	Technical Conclusion from TC 3.3	Gerardo Flintsch, Chair of TC 3.3, US
	Official Closing from Tanzania	Hon - Aisha Amour - PS Ministry of Works - Tanzania

SEMINAR AND WORKSHOP PRESENTERS

Internationally renowned experts with hands on practical experience in the fields of renewal and rejuvenation of aging transport infrastructure, asset management for transport infrastructure resilience, innovative financing mechanisms for road infrastructure, innovative approaches to data collection and analysis, Building Information Modeling (BIM) in transport asset management, and transport asset management in Africa challenges and opportunities have been scheduled to present best practices and case studies in transport asset management

This seminar will provide a platform for practitioners, policymakers, and industry leaders to engage in **knowledge exchange, case studies, and panel discussions**, aiming to enhance the efficiency and sustainability of transport infrastructure. The event will foster meaningful dialogue, encourage collaboration, and support the development of innovative strategies for long-term infrastructure sustainability.

Featured speakers include the following:-



Mr. Nazir Alli, Past President, the World Road Association (PIARC), and Former Chief Executive Officer, South African National Roads Agency Ltd (SANRAL), South Africa. Mr. Nazir Alli is a World Bank Consultant with 40 years' experience as a distinguished civil engineer in both public and private sectors. He was the founding CEO of the South African National Roads Agency Limited (SANRAL) in post-apartheid South Africa and is a globally recognized leader in public-private partnerships (PPPs), change management and the development of small and micro enterprises. He is best known as an international advisor on transport systems, trendsetting contract models, institutional reform, as well as on economic infrastructure policy and the development of rural roads. In addition to transforming a government

department into a corporatized national roads agency, some of his significant achievements include major multi-billion ZAR infrastructure projects such as cross-border toll roads and binational water supply and hydropower projects. During his tenure as CEO of SANRAL, he oversaw the development of national secondary bond markets for toll roads and, introduced the world's first interoperable electronic tolling system. He has served on numerous private and public sector Boards and continues to do so, including on the executive committee of the World Road Association (PIARC). He continues to be a Council member of PIARC.

Dr. Addo-Abedi



Dr. Addo-Abedi holds a PhD degree in Civil Engineering from Queen's University at Kingston, Ontario – Canada, obtained in January 1981. He also holds an MSc Engineering Degree in Geotechnical and Transportation Engineering obtained from the same University in January 1978. He obtained a BSc (Hons) Degree in Civil Engineering from the Kwame Nkrumah University of Science and Technology in June 1975. Dr Addo-Abedi is a civil/transportation engineer with almost fifty (50) years of experience and has worked with various road authorities including the Rwanda Transport Development Agency (RTDA), Tanzania National Roads Agency (TANROADS) and the Ghana Highway Authority in the management of road/transport assets and the implementation of transport programmes.

Dr Addo-Abedi was from July 2010 to June 2011 the Managing Director of the Rwanda Transport Development Agency (RTDA). RTDA is in charge of the management of the National Road Network and the development of air, marine and rail transport infrastructure in Rwanda. He was the Chief Executive of the Tanzania National Roads Agency (TANROADS) from March 2003 to June 2007. Dr Addo-Abedi was Deputy Chief Executive of the Ghana Highway Authority from September 1992 to February 2001. He was from September 2014 to August 2017 the Rector/President of KAAF University in Ghana. Dr Addo-Abedi has worked as a private consultant including a period with the African Development Bank as a Consultant Transport Engineer. He was between October 2007 and December 2010 the Managing Director of Twum Boafo and Partners, a firm of consulting engineers, architects and planners.

Dr Addo-Abedi was from 2009 to 2013 a Council (Board) member for Ghana's Council for Scientific and Industrial Research and from 2014 to 2016 a member of the Board of the Ghana National Vocational Training Institute. He was also a member of the Tanzania Contractors' Registration Board from 2013 to 2016. He has also been an external examiner for a number of Doctoral and Masters' Theses for Civil Engineering at the Kwame Nkrumah University of Science and Technology in Ghana and the University of Dar es Salaam in Tanzania. He was the Chairman of the International Focus Group on Rural Roads from 2004 to 2006 and a board member of the Global Transport Knowledge Partnership (gTKP) from 2006 – 2010). He is currently a member of Council of Regent University College of Science and Technology.

Eng. Gursharan Singh Gill



Eng. Gill is an **engineering management professional** with over **30 years of experience in transport infrastructure, road asset management, and contract administration**. He holds a **Bachelor's degree in Civil Engineering** from **Punjab University** and a **Master's degree in Structures** from Thapar University. He is also a certified Project Management Professional (PMP). Eng. Gill has worked extensively with multilateral development banks, particularly the **World Bank**, leading major road rehabilitation and maintenance projects in **India, Uganda, Botswana, Ghana, and Mozambique**. His expertise spans **Performance-Based Road Contracts (OPRC), infrastructure financing, procurement, strategic contract management, and policy advisory**. He has contributed significantly to sustainable transport solutions, institutional strengthening, and policy reforms. His key assignments include serving as Team Leader for World Bank-financed road asset management projects in Uganda and Botswana, Procurement Specialist **for** India's railways, and Consultant for Ghana's OPRC framework. He has played a pivotal role in developing bidding documents, overseeing procurement processes, and implementing cost-effective, climate-resilient infrastructure solutions.

With a strong background in technical evaluations, project execution, and stakeholder engagement, Gill is recognized for his leadership, ethical approach, and commitment to advancing transport asset management globally. His work continues to shape innovative and sustainable infrastructure development worldwide.

Mr. Adelino Jorge Lopes Ferreira



Adelino Ferreira is Associate Professor with Habilitation in the University of Coimbra and Deputy-Director of the Research Centre for Territory, Transports and Environment (CITTA). He is also the Coordinator of the department's division: Spatial Planning and Transportation Engineering. In 2018 he awarded a prize for R&D International Publications by FCTUC. In 2005, he awarded the Parkman Medal by the Institution of Civil Engineers (ICE) from United Kingdom. He has worked in several research projects financed by the FCT (Portuguese Foundation for Science and Technology). He is coordinating a research project entitled: **PAVENERGY – Pavement Energy Harvesting Solutions**. He has made numerous presentations at international and national meetings, worked and lectured on transportation engineering and management. He has published about two hundred papers in international and national Journals and in international and national Conferences. He has supervised more than forty MSc and PhD theses. He is an Expert in Transportation and Highways by the Portuguese Institution of Engineers since 2007. He is also a member of the AIPCR – World Road Association and Regular Member of the iSMARTi – International Society for Maintenance and Rehabilitation of Transport Infrastructures. As a Pavement Expert, in the scope of technology transfer, he has been collaborating with the Portuguese Roads and Railways Administration, highway concessionaires and Portuguese Municipalities.

Eng. Sophia Belete-Tekie



Eng. Sophia Belete-Tekie is a Professional Engineer with a BSc Degree in Engineering with honours. She is the Manager of the Road Management System (RMS) of the Roads Authority of Namibia. She has been practicing engineering for the last 28 years. She has obtained various diploma and certificates in project management, strategic management, leadership certificates from Stellenbosch University and many renown institutions. She is a member of the Engineering Professions Association (EPA) Council since 2000 and was the first woman President for two terms. In June 2019 she was elected the President of the EPA.

She has served as vice-President and as the honorary secretary of the Council previously. She was the member of the Engineering Council of Namibia since 2005, and was the first woman vice President of the Engineering Council of Namibia term 2013–2018. She spearheaded the public relations committee of the council for years. She has presented papers in various National, Regional and International forums on RMS and road sector reforms and on Asset Management through her knowledge and experience of 28 years. She has been involved in the Road Sector Reform of Namibia and has hands on knowledge and experience when it comes to Road Management of roads on policy, strategy and safety aspects because she is one of the few left in the country who understands the Road Maintenance Initiative movement to focus on road preservation rather than only capital projects.

She was a member of the World Road Association Committee (PIARC) on Asset Management and Financing; and was also a member of the Technical Committee of Performance of Road Administrators and Road Funds of PIARC. She also severed an alternate member of the National Qualifications Authority Council. She has been part of the team who developed a state of the art Road Management System of Namibia which has put Namibia on the map and has realized it to be from a Vision to a reality.

Mrs Tekie has been special guest speaker in many countries, forums, workshops on Women in Engineering; Needs and Numbers for Namibia as she championed the project as a project leader on behalf of ECN and EPA the first to be done outside South Africa; Road Sector governance, and Asset Management Systems. She is also a member of the International Road Federation Africa coordination committee. Her passion lies, in empowerment of women, in training young engineers, in promoting governance and ethics, and being an agent of change in society for the betterment of the world.

Prof. Donath Mrawira



Prof. Donath Mrawira is a Senior Partner of 4M Global Inc. of Canada. He is renowned international expert in Roads and Transportation & Infrastructure *asset management systems*, from scoping to implementation. He recently led road authorities in bench-marking their practice of asset management and developing roadmaps for implementing asset management systems to achieve **ISO-55000 certification**. He is a professional registered engineer with over 35 years' experience. He has extensive experience at senior project leadership positions in organisational review, business process mapping and digital transformation. He is experienced in development of corporate strategy, investment planning and resource optimisation. He has broad expertise in transport sector strategy development; investment programming. His practice has a diverse background from construction site engineer, civil/road works site engineer, to research engineer in road materials, including SUPERPAVE for bituminous mix. In the last 20 years, Prof. Mrawira has been consulting, managing advanced research, and training in the area of infrastructure asset management, road construction and road materials, and pavement design. Prof. Mrawira was the Project Manager, a USD4.5 million Federal Canada funded project to develop a comprehensive infrastructure management technology. He was also Lead Technical Expert for the developing and implementing Asset Management Business Framework for the New Brunswick DOT (USD1.3 million). Prof. Mrawira was lead expert in development and implementation of Asset Management System for the Costa Rica National Roads Agency and the Cities of Dar-es-Salaam, Fredericton. Prof. Mrawira was a Co-Principal Investigator for the design and implementation of a Quality Management System for the CUSD620 Million Fredericton - Moncton Highway Project. He has also directed highly successful capacity building for senior management and executives in over 10 countries in Africa, China, Latin and North America.

Mr. Taisuke Maniwa



Taisuke Maniwa is Assistant Director in charge of Road Asset Management, Road Traffic Safety and Intelligent Transport System in Team 1 of Transportation Group, Infrastructure Management Department, and JICA. He completed his master's Program in Architectural Engineering at Osaka University. After he joined JICA in 2015, his career has included experiences in Procurement Department, a secondment to Civil Engineering Department at a local Government (Ibaraki prefecture) in Japan, and a role in charge of infrastructure at JICA Kenya Office.

Eng. Rashid Kalimbaga



Eng. Rashid Kalimbaga is the Chief Executive Officer of the Roads Fund Board – Tanzania, serving as the Accounting Officer and Secretary to the Board. In his role, he oversees the daily operations of the Board and its secretariat, ensuring efficient implementation of strategic plans and related action plans. He is responsible for monitoring road projects financed by the Roads Fund to assess their value for money. Additionally, he supervises the periodic review of the fund allocation formula for road agencies and ensures they maintain sound road asset management systems. Eng. Kalimbaga also leads research efforts to explore new

revenue sources for the Roads Fund. A professional Civil Engineer with over 30 years of experience, Eng. Kalimbaga holds a Master's degree in Civil Engineering (Highway Engineering) from Kharkov State Automobile – Highway Technical University, Ukraine. His expertise spans road management systems, database development, electronic revenue management, and project oversight. He has contributed to key projects such as the development of the Tanzania Roads Database Management System, customization of TeRMIS to Roads Electronic Revenue Management Information System (ReRMIS), and the enhancement of TARURA's revenue systems, including TRIS and TAUS. His work also includes overseeing systems like DROMAS, NAPA, and the RISE project website, which enhance road infrastructure management in Tanzania.

Eng. Anthony Joshua Mugo, P.Eng, Bsc, Msc, Miek



Eng. Athony Joshua Mugo is a Structures & Roads Engineer specializing in bridges working with Kenya National Highways Authority and a part – time lecturer at Jomo Kenyatta University of Agriculture and Technology (JKUAT). He is a Civil Engineering graduate from the University of Nairobi and a Master of Science (Msc) graduate in Project Management from JKUAT University. Eng. Mugo is a Professional Engineer registered by the Engineers Board of Kenya and a Corporate Member of the Institute of Engineers of Kenya with a practicing record of over 15years. With a key interest in developing solutions in Highway Engineering especially in the Bridges sector, Eng. Mugo is an ongoing PhD Project Management

student at JKUAT and a Bridge Engineering Msc student at the University of Surrey (UK). He has participated in developing a Bridge Management System, over the Kenya National Highways Road Network, which is currently operational. In addition, through the Journal of International Business, Innovation and Strategic Management, Eng. Mugo has published on “*Factors Influencing the Use of Public-Private Partnership Model in Implementation of Road Projects In Kenya*” and “*Factors Influencing the Timeliness in Completion of National Projects in Kenya*”.

Qs. Abubakari Jafo



QS. Abubakari Jafo is currently working as Quantity Surveyor at TANZANIA RURAL AND URBAN ROADS AGENCY. He is serving in the Department of Infrastructure Planning with major activities in the Roads Project Planning and Roads Asset Management Tasks. He also has some tasks in the Roads Project Monitoring. He holds a Bachelor of Science in Building Economics (Quantity Surveying) from Ardhi University. He has big interest in the Rural and African suburbs infrastructural development which include transport infrastructure, housing and other services. QS. Jafo has been co-pioneering in the studies for

Costs effective methods of Roads and Bridges development. Living as a learning champion in the Integrated world of Locally available resources for costs effective construction of bridges and roads, has given an additional effort in the studies of Engineering data collections. Jafo has been developing interests in the field of Data Science to which leaning, analysis and assimilation of various data techniques is of vital use. Similarly, the continuing interventions in the network identification of Urban and Rural Roads within TARURA has made a great of his exposure in the Roads and Bridges data collections especially inventory and Conditions Survey information for Roads Project Planning. He is Registered with AQRB as a Professional Quantity Surveyor, and an Associate member of Tanzania Institute of Quantity Surveyors (TIQS). He is the current TIQS Coordinator for Central Zone of Tanzania and Secretary General of Young Quantity Surveyors Chapter of TIQS. He is also a board member of Young Quantity Surveyors Chapter of African Association of Quantity Surveyors (YQS – AAQS).

Eng. Pharles Elisha Ngeleja, P.Eng, Bsc.



Eng. Ngeleja is the Civil Engineer of Tanzania Rural and Urban Roads Agency (TARURA) HQ since June 2021; formerly he was a Council Manager at Kigoma District Council and the Chairman of Delegate TARURA Regional Tender Board – Kigoma Region from 2017 to June 2021. From 2021 he was also a coordinator for stone arch bridge construction in Kigoma region. He is a registered Consulting Engineer, Corporate Member of the Institution of Engineers Tanzania (CMIET) and ERB Coopted Expert since 2023, holding BSc. (Civil Eng.) awarded by the University of Dar es Salaam in 1998. He is a qualified Engineer with vast and

diversity experience on the Civil Engineering works specialized in stone arch bridges and stone paved roads. He is also a holder of Master's Degree in Business Administration awarded by Open University of Tanzania in 2015. He has attended several courses and seminars related to Engineering, contract Management and Transportation Management in and outside Tanzania. Currently employed and worked with TARURA in the capacity of Civil Engineer coordinating stone arch bridges and stone paved roads activities in the country.

SEMINAR MODERATOR

Eng. Abdul A. Awadh,



Eng. Abdul Awadh is a retired civil servant and currently an Independent Consulting Engineer in Civil Engineering Management and Roads Technical Audits. He holds a Masters' degree in Highway Engineering and has over 38 years' experience on road sector in Tanzania and Sub Saharan Africa. He has been involved in a study to identify appropriate maintenance systems for rural roads and trained the local governments technical staff on where, when and how to use the different systems including framework contracts, performance based contracts using contractors and communities living along the roads. He is a certified Master Trainer by National Highway Institute of USA. He is the Immediate Past Chairperson of the Tanzania Roads Association and the

Chairman of the Forum for Rural Transport and Development which is affiliated to IFRTD.

TARGETED AUDIENCE

The seminar will attract a diverse audience comprising: -

1. **Government Officials:** Policy-makers and planners responsible for transport infrastructure.
2. **Urban Planners:** Specialists focusing on integrated transportation planning and urban development.
3. **Transport Operators:** Companies involved in the operation and management of transport services.
4. **Road Agencies and Road Funds:** Institutions responsible for road construction, maintenance, and funding.
5. **Academics and Researchers:** Experts conducting research in transport systems and asset management.
6. **Consultants:** Professionals providing advisory services on transport projects and asset lifecycle management.
7. **Funding Agencies and Donors:** Representatives from international and local organizations financing transport initiatives.
8. **Technology Providers:** Companies innovating in transport management systems and infrastructure.
9. **Environmental Advocates:** Stakeholders focusing on sustainable transport practices and minimizing ecological footprints.
10. **Private Sector Stakeholders:** Businesses involved in logistics, supply chain management, and related sectors

LOCATION AND VENUE

The Gran Melia Hotel, which can be explored further at www.melia.com, is strategically located in northern Tanzania, making it the perfect venue for professionals, policymakers, and academicians involved in transport asset management. Arusha is the starting point for the Northern tourist circuits, boasting proximity to iconic wildlife parks such as the Serengeti, Ngorongoro Crater, Tarangire, Lake Manyara, and the majestic Mt. Kilimanjaro.

The scenic landscape and rich biodiversity attract thousands of visitors annually, ensuring that the city is bustling with activity.



Due to the hotel's central location within this extraordinary tourist region, participants are encouraged to book their flights early. Typically, flights into Arusha are in high demand, and early reservation will ensure seamless travel arrangements to this captivating destination.

Convenient Access to Arusha

Accessing Arusha is convenient thanks to its proximity to two major airports. The Kilimanjaro International Airport (JRO), located approximately 40 kilometres from the city, handles numerous international flights daily. Airlines such as KLM, Ethiopian Airlines, and Qatar Airways operate various routes to and from this bustling airport, linking Arusha to several parts of the globe.

For those already within Tanzania, Arusha Airport (ARK) offers domestic flights to and from various local destinations, making it easy for participants traveling within the country to join the seminar. Additionally, travellers arriving via Julius Nyerere International Airport in Dar es Salaam can easily connect to either of the airports in Arusha through domestic flights.

REGISTRATION PROCESS

We encourage prospective delegates to secure their spots early by completing the Delegate Registration Form. Registration can be done online by visiting <https://www.tara.or.tz/participant-registration-form-online-international-seminar-transport-asset-management>

REGISTRATION FEES

To accommodate diverse participants, the seminar offers a tiered fee structure based on registration type/category and timing:

Seminar	Date of Registration	Registration Type/Category	Rates	Terms of Payment
Seminar Participation	Before 28 February 2025 (Early Bird Fee)	Middle and Low Income Countries	USD 210	Bank Transfer
		High Income Countries	USD 316	
		Students	USD 100	
		Local Participant (Tanzanian)	TZS. 550,000	
	After 28 February 2025	Middle and Low Income Countries	USD 250	
		High Income Countries	USD 350	
		Students	USD 120	
		Local Participant (Tanzanian)	TZS. 650,000	

Note: Early registration is encouraged to take advantage of the discounted rates.

REGISTRATION FEES PAYMENT INSTRUCTIONS

LOCAL DELEGATES: PARTICIPANTS FROM TANZANIA SHOULD MAKE PAYMENTS TO THE FOLLOWING TANZANIA SHILLING ACCOUNT

DETAIL	INFORMATION
Account Name	TARA Project Account
Account Number	0150 360 676 301
Bank Name	CRDB Bank PLC
Branch Name	Msasani
Swift Code	CORUTZTZ
Bank Contact	Msasani Tower, Off Kimweri Drive, Dar es Salaam, Tanzania
Tel	+255 22 2923344
Fax	+255 22 2923345

FOREIGN DELEGATES: INTERNATIONAL PARTICIPANTS SHOULD MAKE PAYMENTS TO THE TANZANIA ROADS ASSOCIATION (TARA) USD ACCOUNT

DETAIL	INFORMATION
Account Name	Tanzania Roads Association
Account Number	0250360676300
Bank Name	CRDB Bank PLC
Branch Name	Msasani
Swift Code	CORUTZTZ
Bank Contact	Msasani Tower, Off Kimweri Drive, Dar es Salaam, Tanzania
Tel	+255 22 2923344
Fax	+255 22 2923345

Important Notes

- ✓ Participants are responsible for covering all bank transfer charges..
- ✓ It is crucial to include the participant's name and the seminar title in the remittance information to ensure proper tracking of payments

CONFIRMATION OF REGISTRATION

Registrations will be acknowledged in writing to the e-mail or other address nominated in the registration form along with an invoice acknowledging receipt of payment. If you have not received confirmation within **7** days of submitting payment contact Tanzania Roads Association (TARA) at info@tara.or.tz Organizing Committee, Eng. Laurent Athanas at fabianlaurent.tara@gmail.com Mobile +255 753 246 763 or +255 746504 343.

UNDERSTANDING THE CANCELLATION POLICY FOR SEMINAR REGISTRATIONS

As we gear up for the upcoming seminar, it's crucial for registered delegates to be aware of the cancellation policy in order to facilitate effective planning and ensure smooth communication. Life is unpredictable, and it's not uncommon for attendees to encounter unforeseen circumstances that prevent their participation. To address this, our cancellation policy is designed to offer flexibility and clarity.

SUBSTITUTE DELEGATES

If you find yourself unable to attend the seminar after registering, we encourage you to nominate a substitute delegate. This allows your spot to be filled by another participant who can benefit from the valuable sessions and networking opportunities. It's a simple and efficient way to ensure that your registration does not go to waste.

REFUNDS

In the event that you do not have anyone to nominate as a substitute, and you wish to cancel your registration, please note the important refund deadlines. A full refund of the registration fees will be granted if we receive written notice of your cancellation by **10th March, 2025**.

However, after this date, we regret to inform you that no refunds will be issued. While we cannot process refunds post-deadline, we will continue to accept nominations for substitute delegates, ensuring that your registration can still accommodate another interested participant.

This policy is in place to help us manage the seminar effectively, allowing us to prepare accurately for the number of attendees. We appreciate your understanding and cooperation concerning these terms.

VISA INFORMATION

For delegates traveling to the seminar from abroad, it's essential to ensure that you have the appropriate visa. We recommend reaching out to your local Tanzanian Embassy for specific visa requirements. Additionally, comprehensive information can be sourced from the <https://visa.immigration.go.tz/start>.

SEMINAR LANGUAGES

The official language of the International Seminar on Transport Asset Management will be English.

ACCOMMODATION OPTIONS IN ARUSHA

Planning your stay in Arusha? Finding the right hotel is key to a comfortable and productive experience during the International Seminar on Transport Asset Management. To assist you in your planning, we have prepared the following information regarding accommodation options:

Gran Melia Hotel (Discounted Rate for Seminar Participants)

The Organizing Committee has successfully negotiated a discounted room rate at **Gran Melia Hotel** for participants attending the International Seminar on Transport Asset Management to be held from 9th to 11th 2025 at Gran Melia Hotel. For those who require accommodation at Gran Melia at the negotiated rate, please contact the designated person listed below for further assistance.

A) HOTEL ACCOMMODATION RATES OBTAINED DIRECTLY FROM GRAN MELIA HOTEL

HOTEL NAME	DISTANCE TO SEMINAR VENUE	WEBSITE	PREFERENTIAL SINGLE RATE (PER NIGHT)	EMAIL & PHONE NUMBER
Gran Melia Hotel	0 km	http://www.melia.com	Deluxe City view - USD 210 Deluxe Mount Meru view USD 265 Red Level Deluxe Mount Meru View USD 335 Red Level Junior Suite USD 525 Red Level Grand Suite USD 870 Red Level Presidential Suite USD 1,790	gran.melia.arusha@melia.com resa2.gran.melia.arusha@melia.com godlove.mlaki@melia.com leonorah.ndesanjo@melia.com +255 746 981 894 – Leonora Ndesanjo 0754696205 – Goodlove Mlaki

B) OTHER HOTEL ACCOMMODATION OPTIONS IN ARUSHA

HOTEL NAME	DISTANCE TO SEMINAR VENUE	WEBSITE	SINGLE RATE (PER NIGHT)	EMAIL &PHONE NUMBER
Kibo Palace Hotel	About 1.3km	https://kibopalacehotel.com/	USD 206	sales@kibopalacehotel.com Reservations@kibopalacehotel.com No: +255 753 036 444 – Mr. Filliberty
Mount Meru Hotel	About 1.2 km	https://www.mountmeruhotel.co.tz/w	USD 250	info@mountmeruhotel.co.tz No: +255 784 108 200 - Ms. Violent
New Safari Hotel	About 2.2 km	https://newsafarhotel.com/	USD 150	reservation@newsafarhotel.com No. +255 787 326 122 - Ms. Rose Kimambo
Palace Hotel Arusha	About 2.1 km	https://palacehotelarusha.com/	USD 160	marketing@palacehotelarusha.com reservation@palacehotelarusha.com info@palacehotelarusha.com No: +86 62384218 027 554 5800 +255 755 706 206 – Ms. Bahati
Four Points by Sheraton Hotel	About 2.0 km	https://www.marriott.com/default.mi	USD 150	info@thearushahotel.com salesmanager@fourpointsthearushahotel.com No: +255 765 333 666/_+255 27 2977 7777 – Mr. George Billa

- ✓ It is recommended that you book your accommodation directly with the hotel of your choice to ensure availability and secure the best rates. Each hotel provides a range of amenities and services that cater to different needs, whether you are looking for luxury, comfort, or budget-friendly options.

Additional Considerations

- ✓ Location: All the mentioned hotels are conveniently located within a short distance from the seminar venue, allowing for easy commuting.
- ✓ Amenities: It's advisable to check the specific amenities provided by each hotel, such as Wi-Fi, breakfast options, and parking facilities.
- ✓ Cancellation Policy: When booking, inquire about the cancellation policy to avoid any unforeseen charges.

EXPLORING OPPORTUNITIES: TECHNICAL SITE VISIT AND TARANGIRE NATIONAL PARK EXCURSION ON 11th APRIL, 2025.

On 11th April, 2025, participants attending the upcoming seminar will have the unique opportunity to immerse themselves in practical learning and a visit to tourist attractions through a choice between two enriching experiences: A Technical Site Visit or an unforgettable excursion to Tarangire National Park.

TECHNICAL SITE VISIT.

As the landscape of global trade and transportation evolves, enhancing border management and infrastructure is becoming increasingly critical. The upcoming International Seminar on Transport Asset Management, scheduled for April 9th to 11th, 2025, will feature an essential technical site visit to two pivotal projects at the Namanga border between Tanzania and Kenya. Delegates will have the opportunity to explore the One Stop Border Post (OSBP) Project and the Kimokouwa Weighbridge Project, gaining valuable insights into how these initiatives are transforming border crossing and road management in East Africa.

ONE STOP BORDER POST (OSBP) PROJECT

The One Stop Border Post (OSBP) Project is designed to streamline the flow of goods and people across borders, effectively minimizing delays that have historically plagued international trade. By consolidating various border control processes into a single facility, the OSBP aims to reduce the number of stops required for clearance. This innovative approach is built upon a robust legal and institutional framework that ensures compliance with both regional and national laws.

Since its inception, the OSBP has facilitated smoother transitions for vehicles, goods, and travellers between Tanzania and Kenya, significantly expediting the clearance process. Delegates visiting this site will witness first-hand the advantages of unified border inspection procedures, which not only alleviate congestion but also reduce redundancy in border control operations. With the OSBP in operation, stakeholders report increased efficiency and reduced costs associated with border crossing, bolstering trade relations and stimulating economic growth in the region.

KIMOKOUWA WEIGHBRIDGE PROJECT

In addition to the OSBP, the delegation will also visit the Kimokouwa Weighbridge Project, a crucial initiative aimed at combating the issue of vehicle overloading on the Arusha-Namanga road. Overloading poses significant risks to road infrastructure, leading to accelerated deterioration and increased maintenance costs. In response to this challenge, the Government of the United Republic of Tanzania, through the Tanzania National Roads Agency (TANROADS) has implemented a comprehensive weighbridge system at Kimokouwa.

The project involves the construction, supply, installation, and commissioning of two advanced weighbridge scales, accompanied by a Weigh-In Motion facility. This modern setup will empower TANROADS to efficiently oversee and manage axle loads, thereby protecting road conditions and promoting adherence to national regulations. The weighbridge plays a crucial role in preserving the integrity of the road network and also offers substantial cost savings for the agency by minimizing the frequency and severity of road repairs.

The technical site visits to the One Stop Border Post and Kimokouwa Weighbridge on April 11, 2025, represent a unique opportunity for seminar delegates to engage with innovative transport asset management practices in action. These projects highlight the critical role of integrated border management and infrastructure investment in enhancing regional trade and economic resilience. By learning from these initiatives, attendees can gather practical insights that may be applied in their home countries to foster similar advancements in transport management.

Journey Itinerary

For those planning to attend the site visit, here's a detailed itinerary for the journey to the One Stop Border Post and Kimokouwa Weighbridge Project:

- **Departure from Arusha:** 9:30 AM on April 11, 2025
- **Arrival at Kimokouwa Weighbridge Project:** 11:00 AM
- **Duration at the One Stop Border Post and Kimokouwa Weighbridge Project:** 11:00 AM to 3:00 PM
- **Departure Back to Arusha:** 3:00 PM
- **Arrival Back in Arusha:** 5:00 PM

TARANGIRE NATIONAL PARK VISIT

Tarangire National Park, established in 1970, is one of Tanzania's most treasured wildlife habitats and is known for its stunning landscapes and diverse fauna. Located in the Manyara Region, the park covers an area of approximately 2,850 square kilometers and is characterized by its rolling hills, swamps, and the meandering Tarangire River.

Located just 105 kilometers west of Arusha, Tarangire National Park is renowned for its stunning landscapes, rich biodiversity, and, most notably, its remarkable population of elephants.

Often considered one of the best places in the world to see these majestic creatures, Tarangire boasts the largest concentration of elephants on the planet. This incredible park is characterized by its varied ecosystem, which includes vast savannahs, acacia woodlands, and the seasonal waters of the Tarangire River, drawing wildlife from all corners of the region.

It is also well-known for the diverse array of wildlife it supports, such as lions, giraffes, zebras, and a wide range of bird species.

Participants will have the opportunity to explore the park's unique ecosystem, engage in guided game drives, and witness firsthand the breathtaking beauty of Tanzania's wildlife. This experience will not only enrich your understanding of the natural world but also provide valuable insights relevant to our seminar discussions.

The park is renowned not only for its vast population of elephants but also for its unique scenery, which includes rolling savannahs, baobab trees, and the Tarangire River that attracts animals year-round, especially during the dry season.

The park is home to various wildlife, including lions, giraffes, zebras, and numerous bird species, making it a fantastic spot for safari adventures and photography. The landscape transforms dramatically with the seasons, offering visitors a chance to witness the incredible beauty of nature.

Journey Itinerary

For those planning to visit Tarangire National Park, here are the details for your journey:

- **Departure from Arusha:** 7:30 AM on April 11, 2025
- **Arrival at Tarangire National Park:** 9:00 AM
- **Duration Inside the Park:** 9:00 AM to 3:00 PM
- **Departure Back to Arusha:** 3:00 PM
- **Arrival Back in Arusha:** 5:00 PM

Participants will travel via a well-maintained road, ensuring a smooth and pleasant journey as you make your way to one of Tanzania's most captivating national parks.

Preparing for Your Visit

1. What to Bring:

- Comfortable clothing and footwear suitable for safari adventures.
- A hat and sunscreen to protect yourself from the sun.
- Binoculars and a camera to capture the stunning wildlife and landscapes.
- Plenty of water and snacks for your day in the park.

2. Wildlife Sighting Tips:

- Early morning and late afternoon are the best times for wildlife sightings.
- Stay quiet and patient, as animals are often wary of human presence.

ORGANIZING COMMITTEE

NO.	NAME		ORGANISATION	TITLE
1	Gerardo Flintsch	United States	Chair of TC 3.3, PIARC	Chairperson
2	Joseph Odo Haule	Tanzania	Tanzania Roads Association (TARA)	Co-Chairperson
3	Michelle J Baran	Australia	English Speaking Secretary of TC 3.3, PIARC	Member
4	Miguel Caso Florez	Spain	Technical Director of PIARC General Secretariat	Member
5	Prof. Donath Mrawira	Tanzania	4M Global Inc	Member
6	Miguel Valdes Flores	Chile	Spanish Speaking Secretary of TC 3.3, PIARC	Member
7	Pascal Rossigny	France	French Speaking Secretary of TC 3.3, PIARC	Member
8	Go Hirochi	Japan	Technical Advisor for ST 3 of PIARC General Secretariat	Secretary
9	Kaouther Matcha	Tunisia	Technical Advisor for Seminar of PIARC General Secretariat	Member

10	Eng. Sylvester Haonga	Tanzania	Ministry of Works – Tanzania	Member
11	Eng. Pharles Ngeleja	Tanzania	Tanzania Rural and Urban Roads Agency (TARURA)	Member
12	Eng. Nchama Wambura	Tanzania	Tanzania National Roads Agency (TANROADS)	Member
13	Eng. Jonas Makyara	Tanzania	Road Fund Board, Tanzania	Member
14	Eng. Hagai K. Bishanga	Tanzania	Tanzania Roads Association (TARA)	Co- Secretary
15	Eliamlisi Joseph Mlay	Tanzania	Tanzania Roads Association (TARA)	Member
16	David Kitomo	Tanzania	Tanzania Roads Association (TARA)	Member
17	Laurent Athanas	Tanzania	Tanzania Roads Association (TARA)	Member

SUPPORTED BY:

