

At a Glance



ANNUAL REPORT 2023/24

ITLS (Africa)

INSTITUTE OF TRANSPORT
AND LOGISTICS STUDIES
(AFRICA)



UNIVERSITY
OF
JOHANNESBURG

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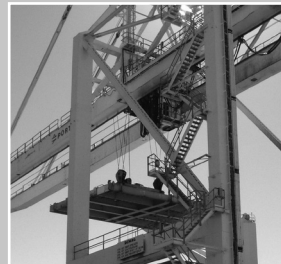
The Department of Transport and Supply Chain Management was established in 1968 and is widely recognized for its education, training and research in the fields of transport economics, logistics, and supply chain management.

The Institute of Transport and Logistics Studies (Africa) was created within the Department of Transport and Supply Chain Management at the University of Johannesburg in response to the industry's need for independent, unbiased, relevant, and up-to-date research.

In 2007 ITLS (Africa) partnered with the Institute of Transport and Logistics Studies at the University of Sydney, as part of a plan to enhance collaboration between the universities, advance information sharing and dissemination and build research ties. In 2018, the MOU with ITLS at the University of Sydney was extended for a further five years.

To maximise the impact of transport and supply chain research on the South African society and economy, ITLS (Africa) provides specialist high-level research services for both the private and public sectors, focusing on the most urgent research priorities in the country.

ITLS (Africa) has, at its core, the skills, experience and network as well as a long history of providing research excellence to both the public and private sectors, in topics ranging from policy and government strategy to various customised transport solutions in all modes of transport.





BOARD MEMBER	COMPANY / INSTITUTION	REPRESENTATIVE OF
Mr Mervin Chetty	Maritime & Transport Business Solutions (MTBS)	Maritime sector
Mr Abrie de Swardt	Abrie de Swardt & Associates	Consultant, Supply Chain Management
Prof Adri Drotskie	University of Johannesburg	Director, School of Management, College of Business and Economics, UJ
Prof David Hensher	University of Sydney	Institute of Transport and Logistics Studies (ITLS), Sydney
Mr Hans Ittmann	Private	Research Associate ITLS (Africa)
Prof Peter Kilbourn	University of Johannesburg	Department of Transport and Supply Chain Management, UJ
Prof Rose Luke	University of Johannesburg	Department of Transport and Supply Chain Management, UJ
Mr Francois Meyer	Golden Arrow Bus Services	Public Transport Sector
Ms Thandeka Mgoduso	Jojose Investments	Transport in general
Dr Ndivhuwo Luruli	University of Johannesburg	Executive Director (Research and Innovation), UJ
Prof Noleen Pisa	University of Johannesburg	Head of Department: Department of Transport and Supply Chain Management, UJ
Mr Piet van Hoven	Private	Aviation sector
Dr Ismail Vadi	Previous MEC, Department of Roads and Transport (Gauteng Provincial Government)	Public sector
Vacant		Rail Sector

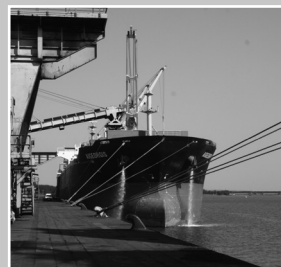
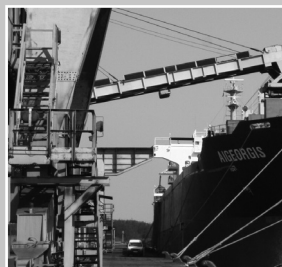




OBJECTIVES

The objectives of the Institute of Transport and Logistics Studies (Africa) are:

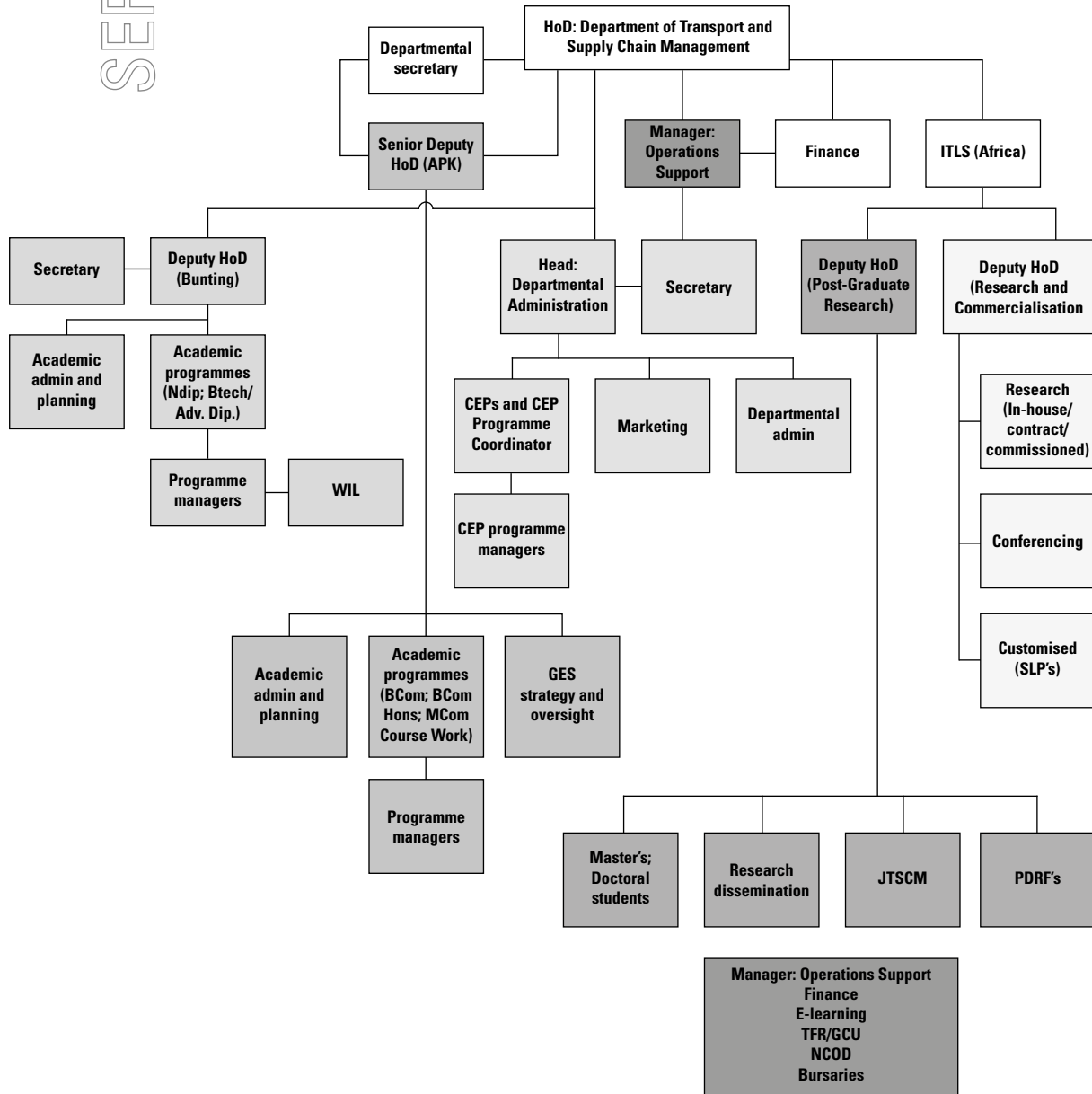
- To continuously study the transport, logistics and supply chain business environments in South and southern Africa.
- To establish a database on critical and key transport and supply chain trends in South and southern Africa.
- To secure commercial research projects by offering customized client-focused research solutions.
- To optimise, manage and market the dissemination of applied and new knowledge of Masters and Doctoral students.
- To develop a research culture and to increase academic output.
- To publicise research findings through public debates, symposia, briefing sessions and publications.
- To make a meaningful contribution to the southern African transport, logistics and supply chain body of knowledge, including the provision of specialized training programmes.

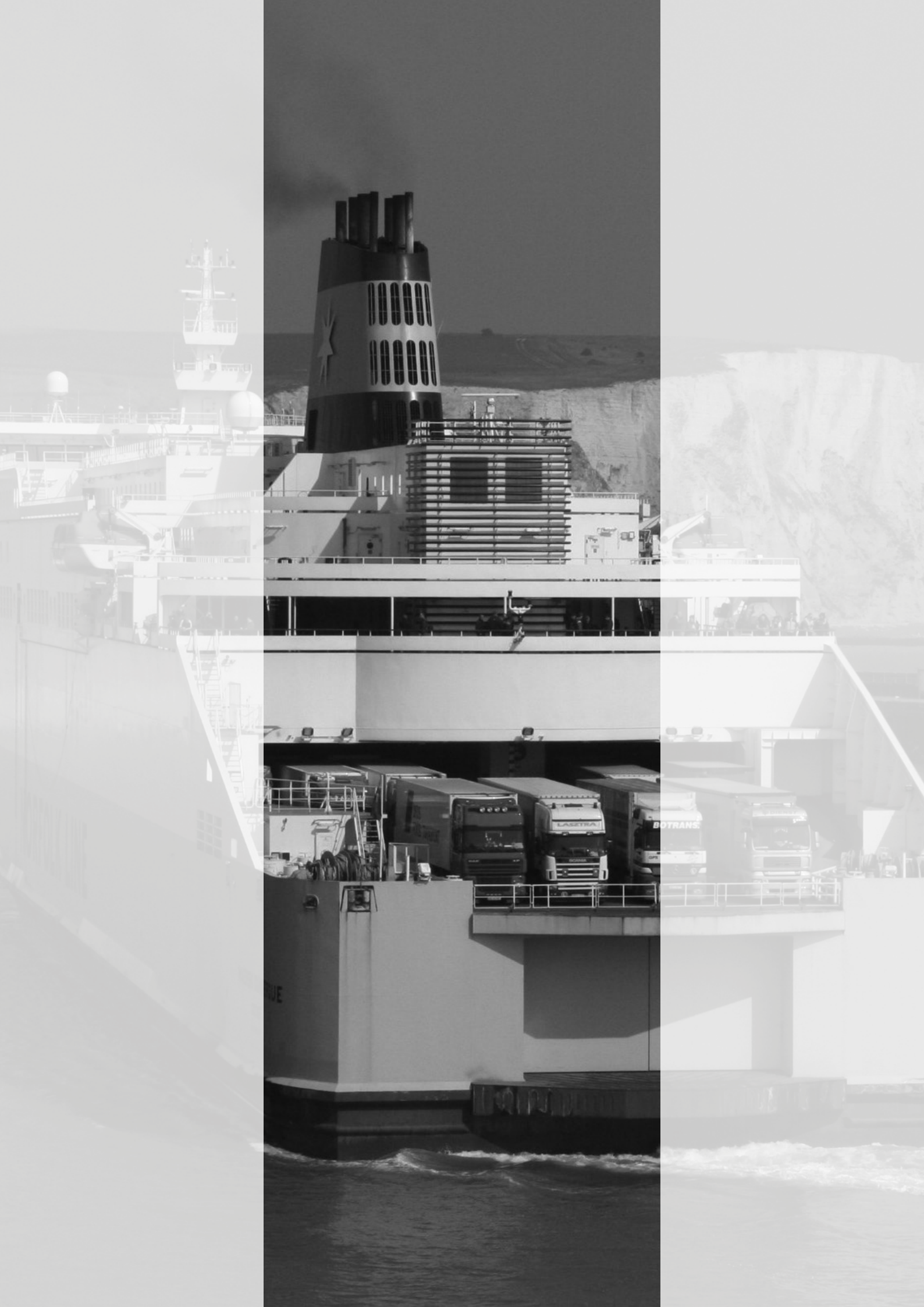




SERVICES

The services provided by ITLS (Africa) were determined based on our objective to continuously study the transport, logistics and supply chain business environments in South and southern Africa. The structure of the services is therefore designed to enable maximum academic research, which is financed through revenue bearing research streams such as conferences, customised courses and commissioned research as shown in the figure below:





OVERVIEW

ITLS (Africa) does research in a number of key areas. Internal research projects range from ongoing surveys to determine trends in the transport, logistics and supply chain management fields, to one-off specialist research projects aimed at addressing the most important current research requirements in transport and logistics in South and southern Africa. In addition to its internal research activities, ITLS (Africa) undertakes commissioned research on behalf of stakeholders in the transport, logistics and supply chain sectors.

Urban Mobility in Emerging Markets Research Group

Overview

The Urban Mobility in Emerging Markets Research Group was established in the department in 2022. It comprises staff, postgraduate students, and post-doctoral research fellows. The research group focuses on urban transportation and travel behavior and their connections to a wide range of disciplines such as urban planning, environmental research, applied psychology, public health, etc. The research group addresses the need for scientific work on the above topic, as existing empirical evidence originating from high-income countries is vast, while developing countries have a smaller share. This need becomes more apparent, when the problems and challenges of the Global South in connection with rapid urbanization, urban sprawl, lack of transport infrastructure, and the neglected preferences of end-users are depicted by a limited number of existing studies and projects on emerging markets. To date the research group has successfully recruited a Master's student, two PhD students, and a post-doctoral research fellow. The research group members have published several articles on related topics.

Group composition

The research team includes:

- Prof Noleen Pisa;
- Prof Houshmand Masoumi (Visiting Professor)
- Dr Hazvinei Tamuka-Moyo (Visiting Senior Researcher)
- Dr Chengete Chakamera; and
- Dr Enock Musau (PDRF)
- Ofentse Sebitlo (PhD student)
- Praise Chikandiwa (PhD student)
- Masimba Mapfurira (PhD student)
- Hilma Nuuyandja (PhD student)
- Takudzwa Mutekwe (Master's student)



Publications

The team has published the following articles in 2024:

Nuuyandja et al., (2024). "A Systematic Review of the Influence of Urban Form on Mode Choice in African Cities". Journal of Transport and Land Use

Masoumi et al. (2024). "The Commuting Behavior and Perception Correlates of Commuting Trips: A Comparative Study on the Egyptian and Migrant Populations in Cairo and Alexandria ". Journal of Renewable Energy and Sustainable Development (RESO)

Masoumi et al. (2024). "Logit and Probit Models Explaining Mode Choice and Frequency of Public Transit Ridership among University Students in Krakow, Poland". MDPI

Masoumi et al. (2024). "Street connectivity and active mobility in emerging economies: disparities of socioeconomic features and travel behavior in sprawling versus compact urban neighborhoods ". International Planning Studies

Masoumi et al. (2024). Unveiling transportation disparities: investigating accessibility gaps in metropolitan cities using GIS Frontiers in Sustainable Cities

Achievements and Research Projects

The research group has achieved a significant milestone by securing an Erasmus Plus grant worth 31,000 Euros. This prestigious grant underscores the group's commitment to advancing knowledge at the intersection of transport and sustainable tourism. The funding will enable the group to explore innovative strategies that enhance the role of transportation systems in promoting eco-friendly tourism practices. By integrating sustainability principles, the project aims to contribute to reducing the environmental impact of tourism while fostering economic and social benefits in the regions involved. This achievement not only highlights the group's dedication to impactful research but also positions it as a leader in the field of sustainable mobility and tourism development.

Smart Mobility Research Group

Overview

The Smart Mobility Research Group explores the dynamic intersection of advanced technologies, public transport modal integration, and sustainability to deliver socio-technical solutions for transport systems in emerging cities. Its research also addresses critical themes in smart logistics and sustainability in Africa, making it a vital hub for innovative and impactful scholarship in the region.

Group composition

The group adopts a multidisciplinary approach, drawing expertise from diverse fields within the College of Business and Economics (CBE). Key members include:

- Prof. Joash Mageto – Group Leader
- Prof. Rose Luke (Transport and Supply Chain Management)
- Prof. Hossana Twinomurizi (Vice Dean of Research and Applied Data Science)



- Dr. Siyabonga Mhlongo (Applied Information Technology)
- Dr. Bokaba Tebogo (Applied Information Technology)

The group is also committed to nurturing future researchers, currently supervising three postgraduate students:

- Mr. Douglas Mitiaka – PhD Student
- Mr. Peter Mugisha – PhD Student
- Mr. Timoth Makotore – Master’s student

Achievements and Research Projects

Since its establishment in 2022, the group has achieved significant milestones:

1. Funding: In 2023, the group secured R300,000 in research funding, facilitating data collection in Nairobi and Johannesburg.
2. Ongoing Research: Current projects include:
Smart Mobility in Africa: Where Are We Now? and Ethics in Smart Mobility

Publications

The group has already made notable contributions to the academic community, including:

Mageto, J., Twinomurizi, H., Luke, R., Mhlongo, S., Bwalya, K., & Bvuma, S. (2024). Building resilience into smart mobility for urban cities: An emerging economy perspective. *International Journal of Production Research*, 62(15), 5556-5573.

Mitiaka, D., Luke, R., Twinomurizi, H., & Mageto, J. (2023). Smart mobility in urban areas: A bibliometric review and research agenda. *Sustainability*, 15(8), 6754.

Additionally, three studies are currently in the final stages of peer review, further strengthening the group’s academic footprint.

The Smart Mobility Research Group is at the forefront of advancing solutions for Africa’s mobility challenges, positioning itself as a key contributor to the global discourse on sustainable and smart transport systems.

Transport Education Training Authority (TETA) Research Chair

In 2022 ITLS (Africa) secured the Transport Education Training Authority (TETA, <https://www.teta.org.za>) 4IR Research Chair, valued at R5m. The scope of activities for the research chair is aimed to enhance the TETA’s mandate namely to facilitate skills development and training in the transport sector. The contract was extended to March 2025 to finalise the presentation of the Drone short learning programme.





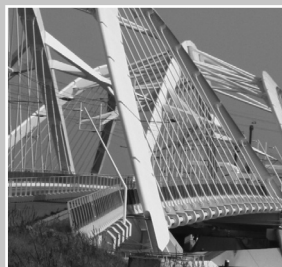
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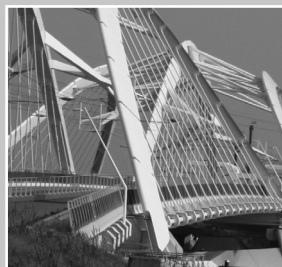
ITLS's research capacity is expanded by means of the inclusion of master's and doctoral students into the ITLS (Africa) structure. This ensures that research at this level remains focused and aligned with national research imperatives, thereby adding relevance and value to South and southern Africa's local body of knowledge. The proceeding tables show the current registered masters' and doctoral students as well as the graduates.

REGISTERED MASTER'S STUDENTS

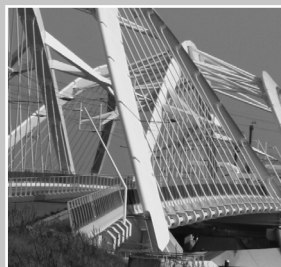
Name of student	Field of research	Dissertation Based	Course Work
L Bashele	The impact of Durban harbour inefficiencies on the automotive industry in Gauteng		✓
K Gouwe	Green Logistics on Supply Chain Performance: a case study of South African Food retailers		✓
N Lawrence	Maximising customer value: Lean six sigma within the supply chain	✓	
L Lerefolo	The challenges faced by procurement practitioners at a South African public enterprise		✓
P Legodi	Online book store's challenges in effectively and efficiently supplying customers with ordered books		✓
R Luthuli	Challenges and determinants of Blockchain adoption in the supply chain for South African SMMEs		✓
NS Malindisa	Developing a Benefits Realization Framework for the successful implementation of Industry 4.0 technologies in the Automotive Industry in South Africa		✓
R Mammburu	Enhancing the effectiveness of a procurement process in a South African public entity		✓
R Miller	Transformational technologies as a competitiveness edge: Investigating the improvement of logistics and supply chain management of the FMCG industry in South Africa	✓	
M Mathoma	The influence of risk management capabilities on the supply chain of distribution companies.		✓



W Mathye	An exploratory analysis of the Implementation of Supply Chain Management practices. A case of Gauteng provincial treasury		✓
R Miller	Transformational technologies as a competitiveness edge: Investigating the improvement of logistics and supply chain management of the FMCG industry in South Africa	✓	
J Mncube	Promoting Supplier Diversity: Integration of Diverse Suppliers into a Petrochemical industry (Submitted for examination)		✓
MM Monyemange	The role of operational planning on product availability and rapid service delivery in online grocery delivery startups in Johannesburg, South Africa		✓
M Mothobela	Demand planning and its impact on, on-time delivery (submitted for examination)		✓
P Musariri	Implementation of green logistics in the road freight industry in Gauteng	✓	
T Mutekwe	Service quality attributes of e-hailing services in Johannesburg	✓	
T Nxumalo	Successful Alignment Between Supply Chain Strategy and Corporate Strategy: A Systematic Review		✓
O Pitso	Exploring the potential of South African Minibus Taxi Industry as a Crowd-shipping Service.	✓	
BK Rakareng	Growth Challenges of women-owned SMMEs in mining supply chains.		✓
E Ramafamba	The impact of road infrastructure on agricultural productivity: A case study of the Vhembe district municipality in the Limpopo Province	✓	
MM Ramokadi	Smart Warehousing: The adoption and effectiveness of warehouse automation within South African retail warehouse environments		✓



S Ross	An examination of factors influencing port competitiveness: the port of Durban and the Durban Container Terminal case	✓	
N Sgogo	Building resilient Global Supply Chains under market disruptions perspective from Supply Chain Professionals in an Integrated Energy Company		✓
N Shabangu	An investigation of female truck drivers in the Fast-Moving Consumer Goods (FMCG) industry		✓
T Sirenya	An evaluation of the effect of consumer electronics of consumer applications returns on warehouse functionality in Johannesburg	✓	
YKL Sosibo	Exploring the linkage between managers' perceptions of disruptions and Business resilience in supply chain		✓
LW Symons	The impact of transport disruptions in the automotive industry within a JIT environment : Cape Town		✓
M Tlholwe	The potential use of internet of things in South African healthcare supply chains (submitted for examination)		✓
P Tshenye	Effects of covid-19 to supply chain risk management in South African oil and gas companies	✓	
R Tshifhumulo	The projected impact of supply chain risks on the South African manufacturing industry (submitted for examination)		✓
M Tukuta	Logistical Constraints and Performance of A1 Tobacco Farmers in the Mashonaland West Province of Zimbabwe	✓	
N Zubaida	The effect of on-demand logistics platforms on logistics efficiency in South Africa: A Case of Load Africa (submitted for examination)	✓	



Pre-registered Masters students

Name of student	Field of research
D Kubayi	Third party access and common user facilities to build capacity for emerging miners in South Africa
O Sibiza	The influence of online shopping logistics and customer satisfaction on repeat online purchases

Master's graduates for 2023 / 2024

Name of Student	Title of Study	Dissertation based	Course Work	Date of graduation
N Kambule	An Analysis of the Gautrain Strategic Objectives	✓		July 2024
M Khumalo	Optimising food supply chain continuity through the integration of demand forecasting and risk management strategies.		✓	July 2024
K Khitsane	The adoption of blockchain technology by a South African railway operator on the container corridor		✓	October 2023
L Mogale	The effect of supply chain management practices on the performance of fast-food micro-enterprises in Alexandra township		✓	July 2024
H Magopa	An assessment of value for money in public procurement of road infrastructure in Limpopo Province		✓	July 2024
S Makuwa	Implementation of SCM best practices within government Entity A		✓	October 2024



REGISTERED DOCTORAL STUDENTS

L Basson	African humanitarian supply chain network development
P Chikandiwa	Urban mobility in emerging markets: an empirical investigation of the characteristics and barriers of active transportation in Johannesburg, South Africa
E Jesaya	Supply chain disruptions in the fast-moving consumer goods (FMCG) retail industry in Namibia
A Kashanku	Road transport infrastructure and household welfare in Rural Uganda
M Khosa	Third-Party Access to enhance rail operational efficiency on the Johannesburg – Durban corridor, South Africa
M Mapfurira	Understanding the willingness to transition to e-mobility in Southern Africa: The case of Zimbabwe and South Africa
D Mitieka	Smart mobility, sustainability and quality of life: Aligning the Paradigms
MK Mwale	Forecasting road-based public transportation needs for developing cities: A case of Lusaka city (submitting for examination)
H Nuuyandja	An evaluation of urban transport policies in developing cities: A case study of Windhoek, Namibia and Harare, Zimbabwe
N Omido	Big data analytics capability to improve operational excellence and performance of airlines
N Rankeng	Managing the impact of returns for an e-commerce retail business in South Africa.
O Sebitlo	Association between ride-sourcing and sustainable travel - Evidence from Johannesburg
M Steenkamp	Transport infrastructure, logistics capability and foreign direct investment in Sub-Saharan Africa
C Tsikada	Zimbabwean smallholder paprika growers from field to fork – Sustainable value network analysis (completed)
J van der Walt	The development of an Android-based short food supply chain application for urban agriculture.

Pre-registered doctoral students

Name of student	Field of research
H Makan	Supply chain modern slavery in South Africa: context, conceptualization and assessment
C Ruoja	Logistics management Practices and performance of public health facilities in Dar Es Salaam region: Tanzania



Doctoral graduates for 2023 / 2024

Name of Student	Title of Study	Date of graduation
E Moyo	Conceptualising a sustainable food cold chain model for a developing country	October 2024
E Mogire	Last mile delivery and customer satisfaction of online retailers in Kenya	May 2023
N Tshetu	The impact of the Yamoussoukro declaration on airlines	June 2023

MASTERS AND DOCTORAL RESEARCH GROWTH STRATEGY

As part of its ongoing strategy to increase the number of masters’ students, improve research publications and raise the intake of doctoral students, a coursework master’s degree (MCom Business Management) with a specialisation in supply chain management was introduced in January 2011. This programme has recently been changed by the host department (Business Management) to minimize specialization areas but students are still able to specialize in supply chain management.

The following table sets out the number of graduates on all qualifications between 2013 and 2024 for the respective qualifications:

YEAR	Dissertation-based Master’s	Course work Master’s MCom	Doctorate
	Graduates	Graduates	Graduates
2013	2	3	0
2014	2	6	1
2015	0	3	1
2016	2	3	1
2017	2	8	0
2018	0	2	1
2019	1	4	0
2020	0	10	0
2021	1	2	0
2022	0	3	2
2023	2	2	2
2024	1	4	1
TOTAL	13	50	9





ITLS (Africa) has started its own publication, the Journal of Transport and Supply Chain Management, and is the first of its kind in South Africa. The journal, which is an electronic or e-journal, was first published in November 2007 following a process of approval for publication. The journal contains peer-reviewed articles by local and international transport and supply chain specialists. As from January 2010, the journal has been fully accredited by the Department of Higher Education. The eighteenth edition of the journal was published in November 2024. The Editor of the Journal is Prof S. Kruger and the day-to-day administration is outsourced to African Online Scientific Information Systems (Pty) Ltd (AOSIS), a professional publishing company that manages (amongst others) academic journals. The format of the journal was amended in 2012 from being an annual journal to an ongoing open access publication. This has enabled authors to have their work published at any stage during the year rather than waiting for end-of-year publication, resulting in a fast turn-around time for authors.

A total of 283 (including the special covid edition) articles has been published since the inception of the Journal in 2007. It is evident that the Journal is fulfilling a major gap in the dissemination of transport and supply chain research in the country.

The Journal was accepted for inclusion in the Scopus Index on 02 October 2019. The journal received ABS one star ranking in 2024.

The current version (2024) can be viewed in full at: <http://jtscm.co.za/index.php/jtscm>



The following table contains an overview of the articles published for 2023 and 2024 (the 2024 edition has not yet been closed)

Year	Article	Authors
2024	Navigating the challenges of public transport and urban mobility in Thohoyandou, South Africa	TJM Mckay B Duri A Gunter
	Exploring sustainable food supply chain management practices to enhance food security	S Munuhwa P Hove-Sibanda
	Spatial configuration of warehouses of different sizes in the City of Cape Town municipality	M Mokhele B Fisher-Holloway F Garatsa
	Examining the socio-economic variables and basic skills provision in navigating the challenges of the Fourth Industrial Revolution: A case study of long-distance truck drivers in South Africa	J Mhandu MC Mafunda K Batisai
	Factors influencing taxi entrepreneurs to adopt intelligent transport management systems	L Motsi B Chipangura
	An application of gravity models to freight data in Malaysia	A Abdullah ZH Zamzuri NH Miswan
	Blockchain in the logistics sector: A systematic literature review of benefits and constraints	M Mvubu MJ Naude
	Technology foresight for the South African road transport sector by 2035	FC Rust LR Sampson AA Cachia BMJA Verhaeghe HS Fourie MA Smit A Hoffman W Jvdm Steyn K Venter S Lefophane
	Supply chain integration and resilience in Namibia's state-owned logistics enterprises at Walvis Bay Port	AT Shooya TP Mbhele
	The effect of organisational factors on adopting big data analytics in supply chain operation among companies in Saudi Arabia: The moderating role of resistance to change	AA Hamed SM Dandan AA Farah SA Barakat
The role of supply chain risk mitigation strategies to manage supply chain disruptions	JD Nel	



	Plastic pollution mitigation strategies in global supply chains: A thematic analysis	A Mapanga N Faleni
	Travel mode choices of residents in developing cities: A case study of Lusaka, Zambia	MK Mwale N Pisa R Luke
	Analysing intermodal connectivity for the functionality of Namibia's regional logistics hub	GM Tshoopara TP Mbhele
	Accounting information sharing within buyer-supplier collaborations: Insights from a developing country	LMA Aladwey RA Alsudays
	Artificial intelligence and information systems capabilities for supply chain resilience: A study in the South African fast-moving consumer goods industry	K Hirsch W Niemann B Swart
	Digital transformation at third-party logistics providers: Challenges and best practices	M Mvubu MJ Naude
	Regulating the SADC Regional Railway Corridors for Investment	LM Sakanga EM Mwanaumo WD Thwala
	Rethinking competency requirements in South African supply chain management	A Mapanga
	Analysis of factors and solutions to poor supply chain quality in a manufacturing organisation	RL Selepe OA Makinde
	Child slavery in supply chains: Actors of the dirty scene	M Lotfi N Pisa
2023	The macrologistics effect of a state-owned enterprise, Transnet, on the South African economy	JH Havenga JP Simpson H Neethling A de Bod S Swarts
	Factors influencing decision-making in buying process of express logistics services	V Khatri A Pandey A Kumar
	Use of causal loop diagrams to assess future drivers and trends in South African transport	FC Rust LR Sampson AA Cachia BM Verhaeghe HS Fourie MA Smit
	External dynamic exasperations on the adoption of enterprise application architecture for supply chain management	KXT Lamola



Optimising supply chain effectiveness among state-owned enterprises in South Africa	EC Chinomona P Nematatani L Ntshingila
Conflict of lien laws relating to the sale of abandoned goods carried by multimodal transport in Ethiopia	TB Takele ME Jaleta
The role of African airlines in air transport liberalisation	TN Tshetu J Walters R Luke
Impact of Omicron COVID-19 restrictions on air transport and tourism to and from South Africa	J Vermooten
The role of software in reverse logistics and effect on oily waste management	K Bayramov
Optimising inventory, procurement and production with excess demand and random parameters	PA Wicaksono S Sutrisno S Solikhin A Aziz
The postal performance of the South African Post Office: An international and local perspective	HW Ittmann
A Euclidean-based decision model for logistic mobilisation to disaster area	AK Ferina DN Utama
Identifying temperature deviations in the hake cold chain from Namibia to Spain	C Neethling LL Goedhals-Gerber
Managing omni-channel reverse logistics risk during supply chain disruption recovery in the South African fashion industry	T Ermes W Niemann
It joins all – Synchronicity: How technology is reshaping our understanding of collaboration	P Stone P Thomas G Goldman
Trends in weather-related marine cargo insurance claims: A South African perspective	F du Plessis LL Goedhals-Gerber J van Eeden
Readiness factors affecting e-procurement in South African government departments	DN Maepa MF Mpwanya TB Phume
An assessment of the capacity and the performance of marine services in South Africa's ports	SE Mthembu MG Chasomeris
Policy enforcement, corruption and stakeholder interference in South African universities	BS Ngcamu E Mantzaris
Impact of COVID-19 restrictions on South African air transport and tourism indicators	J Vermooten



	Bullwhip effect: Modelling and simulation of a sinusoidal stimulus considering food waste	D Rottenegger M Öfele HM Braun S Braunreuther
	Customer satisfaction with last-mile delivery in Kenya: An online customer perspective	E Mogire PJ Kilbourn R Luke
	Enhancing supply chain agility through e-procurement in a volatile frontier market	F Makudza DC Jaravaza T Govha P Mukucha F Saruchera

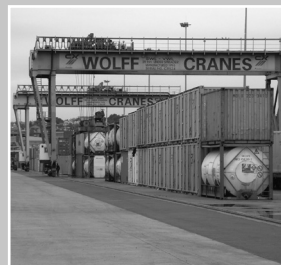




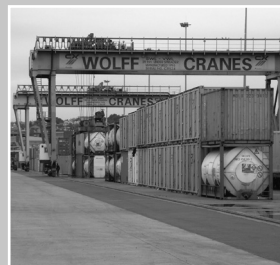
1. Maliha, M., Moktadir, M. A., Bag, S., and Stefanakis, A. I. (2023). "Circular economy practices in the leather products industry toward waste valorization: an approach of sustainable environmental management". *Benchmarking: An International Journal*, Vol.31(3), pp.731-798. <https://doi.org/10.1108/BIJ-10-2022-0628>
2. Gideon, E.M (2023). "Building resilience and mitigating impacts of uncertainties in technical and vocational education and training in Kenya: Assessing the influence of leagile pedagogy." *International Journal of Information and Communication Technology Education*, Vol.19(1), pp.1–14. <https://doi.org/10.4018/IJICTE.333860>
3. Musau, E. G., Pisa, N. M., and Masoumi, H. E. (2023). "Association between transport-related physical activity and wellness in sub-Saharan Africa: A systematic literature review." *Transportation Research Interdisciplinary Perspectives*, Vol.22, 100928. <https://doi.org/10.1016/j.trip.2023.100928>
4. Rathore, B., Kumar V., Gupta R., Verma P., Bag S., and Tagarakis, K.P. (2024), "Demystifying the barriers for electric vehicle acceptance: Multiple stakeholders' perspective". *The Transportation Journal*, Vol. 53. Pp. 1-12. <https://doi.org/10.1016/j.rtbm.2023.101090>
5. Gani, M.O., Rahman, M.S., Bag, S. and Mia, M.P. (2024). "Examining behavioural intention of using smart health care technology among females: dynamics of social influence and perceived usefulness". *Benchmarking: An International Journal*, Vol. 31 (2) pp. 330-352. <https://doi.org/10.1108/BIJ-09-2022-0585>
6. Srivastava, G. and Bag, S. (2024). "Modern-day marketing concepts based on face recognition and neuro-marketing: a review and future research directions", *Benchmarking: An International Journal*, Vol. 31(2) pp.410-438. <https://doi.org/10.1108/BIJ-09-2022-0588>
7. Bag, S. (2024). "From resources to sustainability: a practice-based view of net zero economy implementation in small and medium business-to-business firms", *Benchmarking: An International Journal*, Vol. 31(6) pp.1876-1894. <https://doi.org/10.1108/BIJ-01-2023-0056>
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CRANES



ITLS (Africa) hosted several TransportSIG events during the course of 2023/2024 in order to provide appropriate forums for transport, logistics and supply chain information exchange and debate. These events have been very well attended with an average attendance of between 120 and 180 delegates per session. Due to the COVID-19, the 2023/2024 sessions were all held virtually. In addition, the sessions being streamed on the Zoom platform, delegates can watch proceedings on YouTube.

The first event for 2024 was held in March and the theme was **“Last Mile Logistics”**. Speakers included Dr Peter Kilbourn (Deputy Head: Department of Transport and Supply Chain Management, University of Johannesburg); Mr Garry Marshall, (Chief Executive Officer, South African Express Parcel Association (SAEPA)); Mr Renko Bergh (Co-founder, Ctrl Fleet); Mr Stanley Bezuidenhout, (Director, IBF Investigations); Mr Oliver Naidoo (Managing director, JCC Auditors); Mr Michael Henning (Sales Manager, Easy Clear) and Mr Ray Singh (Head of Business Development, Petroleum, Unitrans).

The second event took place in April and the theme was **“Smart Mobility”**. Speakers included Dr Joash Mageto (Deputy Head: Department of Transport and Supply Chain Management, University of Johannesburg); Mr Dirk du Preez, (Transport Planner, City of Cape Town); Mr Justin Coetzee (Founder, GoMetro); Ms Rebecca Phala (Communication Manager, SANTACO); Mr Dawie Bosch (Consultant, C40); Mr Victor Radebe (Co-Founder, Mobility Centre for Africa); and Ms Siveshni Pillay (Traffic Engineer, SANRAL).

The third event was held in September and the theme was **“Regional Integration”**. Some of the speakers included Prof Noleen Pisa (Head, Department of Transport and Supply Chain Management, University of Johannesburg); Mr Duncan Bonnett (Director: Africa House); Mr Thabang Mamaru (Business Mobilisation, DTI); Ms Thethiwe Jika (Manager: Policy and Planning, CBRTA); Ms Louise Wiggett (CEO, Global Trade Solution) and Dr Ify Ogo (Trade and Investment Advisor).

The final transport forum for the year took place on 10 October 2024 during Transport Month. The theme for the event was **“Rail Day”**. Speakers included Prof Noleen Pisa (Head: Department of Transport and Supply Chain Management, University of Johannesburg); Dr Leo Petkoon Business Consultant (Rail- and Terminal Services, Leo Petkoon Projects); Mr Jan-David de Villiers (Chief Director, Department of Transport); Mr Vuma Ngcobo (Chief of Staff, Passenger Rail Agency of South Africa); Mr Ian Bird (Senior Executive: Transport & Logistics Focal Area, Business for South Africa (B4SA)); Mr Warwick Lord (Chairman, Multimodal Inland Port Association); and Mr Anand Moodliar (Group Chief Executive Officer, Barberry Holdings (Pty)Ltd).

Since the inception of TransportSIG in 2007, approximately 1 034 papers have been read that are freely available on the TransportSIG website www.transportsig.com and is a useful resource on the latest trends and developments in the transport and supply chain industries in South Africa.



Other Conference Presentations – 2023 / 2024

1. Kotze, A.C, and Kilbourn, P.J., (September 2023). "Examining Financial Performance and Supply Chain Process Strategy for a Pharmaceutical Company." Paper presented at the 16th International Business Conference. 24-27 September 2023. Swakopmund, Namibia.
2. Mageto, J. (2023) "Introduction to Cohort Supervision." Presentation to Postgraduate school, UJ, 22 September 2023.
3. Thaba, S., Seseni, L., Madonsela, N., & Mbohwa, C., (2024). "The state of emerging agro-processors in South Africa: A case of Limpopo Province." Proceedings of the 14th International Conference on Industrial Engineering and Operations Management, Dubai, UAE, 12-14 February.
4. Thaba, S., Madonsela, N., & Mbohwa, C., (2024). "A value chain approach turning Ga-Lekgothoane village into a home of sweet potato yoghurt." Proceedings of the 14th International Conference on Industrial Engineering and Operations, Dubai, UAE, 12-14 February.
5. Bheqezi, N., Makushu, H., Legabi, L., & Baloyi, G., and Thaba, S. (2024). "Analysing green logistics in small and medium logistics service providers in Johannesburg." Proceedings of the 5th African International Conference on Industrial Engineering and Operations Management, Pretoria, South Africa, 23-25 April.
6. Mageto, J. and Luke, R. (2024). "Safe, Smart, and Green Urban Mobility: A Bibliometric Analysis." Proceedings of 9th International Conference on Sustainable Transportation & Smart Innovations (ICTA2024), July 29 –31, 2024, Arusha, Tanzania.
7. Mageto, J. and Luke, R. (2024). "Freight logistics in Africa: Information and technology as beacons." Proceeding of the 13th International Conference on Business & Economic Development (ICBED), 15-17th April 2024, New York.
8. Khitsane, K., Nabee, S., and Makan, H. (2024). "Managerial Approaches to Blockchain Technology Adoption in the Rail Freight Sector: An Emerging Market Perspective." Proceeding of the 13th International Conference on Business & Economic Development (ICBED), 15-17th April 2024, New York.
9. "Heyns, G.J., and Luke, R., (April 2024). Supply Chain Management Skills, Work Experience and Education Requirements: The Student Perspective. Paper presented at the 25th Ireland International Conference on Education (IICE). 2 – 4 April 2024. Dún Laoghaire, Ireland"
10. Adenigbo, A. J., Mageto, J. and Luke, R. (2024). "Effect of Employee Training in the Air Cargo Logistics Industry in Nigeria." Proceeding of the 7th International Conference on Logistics Operations Management, GOL'24. 7th Edition of Springer International Conference on Logistics Operations Management. May 02 - 04, 2024, Marrakesh, Morocco.



11. Luke, R. & Mageto, J. (2024). "The state of smart logistics scholarship in Africa: a bibliometric analysis and research agenda." 9th Business & Entrepreneurial Economics (BEE 2024), 25-27 May 2024, Opatija, Croatia
12. Kilbourn, P. (2024). "The impact of last-mile logistics service quality on online customer satisfaction and repurchase intentions." 9th Business & Entrepreneurial Economics (BEE 2024), 25-27 May 2024, Opatija, Croatia
13. Van der Merwe, E., Gideon E.M., and Pisa N., (2024). "Material master data management implementation: the moderating role of external service providers." 9th Business & Entrepreneurial Economics (BEE 2024), 25-27 May 2024, Opatija, Croatia.
14. Mogire, E., Kilbourn, P.J., and Luke, R.J. (Sept 2024). "Green Innovations in Last Mile Delivery for E- Commerce: A Bibliometric Review." Paper presented at the 17th International Business Conference, 22-25 September 2024. Stellenbosch, South Africa.
15. Adenigbo, A. J., Mageto, J. and Luke, R. (2024). "Service qualities in the cargo logistics industry in Nigeria." 42nd Annual Southern African Transport Conference, 08 – 11 July 2024, Pretoria, South Africa.
16. Adenigbo, A. J., Mageto, J. and Luke, R. (2024). "Employee Performance in the Air Cargo Logistics Industry in Nigeria." 27th Air Transport Research Society (ATRS) Conference, 30 June - 04 July 2024. University of Lisbon, Portugal.
17. Adenigbo, A. J., Mageto, J. and Luke, R. (2024). "Service Qualities Delivery in the Air Cargo Logistics Industry in Nigeria." 24th Southern African Transport Conference (SATC), 08 – 11 July 2024. CSIR, Pretoria
18. Van der Merwe, E., and Pisa, N. (2024). "A framework to benchmark material master data management implementation: Implications on supply chain processes in FLSMIDTH." Proceedings of the 28th International Symposium on Logistics (ISL 2024). 07 – 10 July 2024. Bangkok, Thailand.

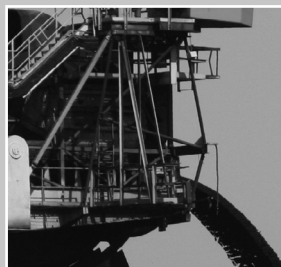




In addition to research-based activities, ITLS (Africa) also offers customised training courses to sector role players. To date, the Institute has created and offered customised training courses for several key South African role players including Transnet, the South African Post Office, the University of Liège/Transport SETA and the Gauteng Portfolio Committee on Transport.

Transnet Freight Rail (TFR)/ Glasgow Caledonian University

TFR identified a major training gap in rail operations in the organization. In an alliance between TFR, the Glasgow Caledonian University, ITLS (Africa) and the Institute of Rail Operators in Britain, a course was identified to address these needs through certificate, diploma and degree programmes. ITLS (Africa) has been involved in this course from a development, managerial and presentation perspective. The first intake of students (TFR employees) started in April 2012. The success of this venture developed into an extension of the contract between UJ and Transnet with intakes of students in 2013, 2014 and 2015. A further extension was agreed upon in August 2017, resulting in an additional five cohorts of students registering in 2017, 2018, 2019, 2020 and 2021. This extension also incorporated the offering of a Honour’s and Master’s Degree. The total number of students to be trained is estimated at 1228.





There are currently three full-time Post-Doctoral Research Fellows appointed within ITLS (Africa).

Below is a summary of each PDRF.

Dr Adedotun Joseph Adenigbo

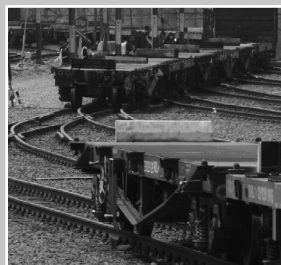
Adedotun holds a Ph.D. in Transport Management Technology with the option in Air Transport Management at the Federal University of Technology, Akure, Nigeria, in 2019. His thesis focused on Air Cargo Traffic at Lagos and Accra airports. TETFund Nigeria sponsored his research in Ghana while serving as a Research Affiliate student at the Department of Geography and Resource Development, University of Ghana, in 2017. He is a Lecturer at the Department of Logistics and Transport Technology, Federal University of Technology, Akure, Nigeria. Currently, Adedotun is a Postdoctoral Research Fellow in the Department of Transport and Supply Chain Management at the University of Johannesburg, South Africa. He is presently working towards research publications in air cargo logistics to achieve the objective of his Postdoctoral Fellowship.

Dr Eric Mogire

Eric holds a Ph.D. in Logistics Management from the University of Johannesburg, South Africa, in 2023. His thesis focused on last-mile delivery and customer satisfaction created by online retailers in Nairobi. Currently, Dr. Mogire is a Postdoctoral Research Fellow in the Department of Transport and Supply Chain Management at the University of Johannesburg, South Africa. He is presently working towards research publications in e-mobility and delivery technologies in the last mile to achieve the objective of his Postdoctoral Fellowship.

Dr. Enock Giddy Musau

Enock holds a Ph.D. in Supply Chain Management at the Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya, in 2018. His thesis focused on analyzing supply chain determinants of performance and the moderating role of background characteristics in the context of textile manufacturing firms in Kenya. He is a senior Lecturer at the Department of Management Science, Kisii University, Kenya. Currently, He is a Postdoctoral Research Fellow in the Department of Transport and Supply Chain Management at the University of Johannesburg, South Africa. He is presently working towards research publications in mobility (motorized and non-motorized) to achieve the objective of his Postdoctoral Fellowship.



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