

At a Glance



ANNUAL REPORT 2020/21

ITLS (Africa)

INSTITUTE OF TRANSPORT
AND LOGISTICS STUDIES
(AFRICA)



UNIVERSITY
OF
JOHANNESBURG

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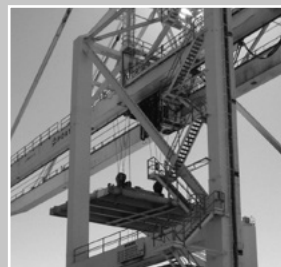
The Department of Transport and Supply Chain Management was established in 1968 and is widely recognized for its education, training and research in the fields of transport economics, logistics and supply chain management.

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 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	Transnet SOC (Ltd)	Maritime sector
Mr Abrie de Swardt	Consultant (Abrie de Swardt & Associates)	Supply Chain Management
Prof David Hensher	ITLS, University of Sydney	International
Mr Hans Ittmann	Private	Research Associate ITLS (Africa)
Dr Peter Kilbourn	University of Johannesburg	UJ Department of Transport and Supply Chain Management
Prof Rose Luke	University of Johannesburg	UJ Department of Transport and Supply Chain Management
Mr Francois Meyer	Golden Arrow Bus Services	Public Transport Sector
Ms Thandeka Mgoduso	Jojobe Investments	Transport in general
Dr Carol Nonkwelo	University of Johannesburg	UJ Executive Director (Research and Innovation)
Dr Noleen Pisa	University of Johannesburg	UJ Department of Transport and Supply Chain Management
Mr Piet van Hoven	Private	Aviation sector
Dr Ismail Vadi	Previous MEC, Department of Roads and Transport (Gauteng Provincial Government)	Public sector
Prof Daneel van Lill	Executive Dean, University of Johannesburg	UJ College of Business and Economics
Prof Jackie Walters	University of Johannesburg, ITLS (Africa)	ITLS (Africa)
Vacant		Rail Sector





OBJECTIVES

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

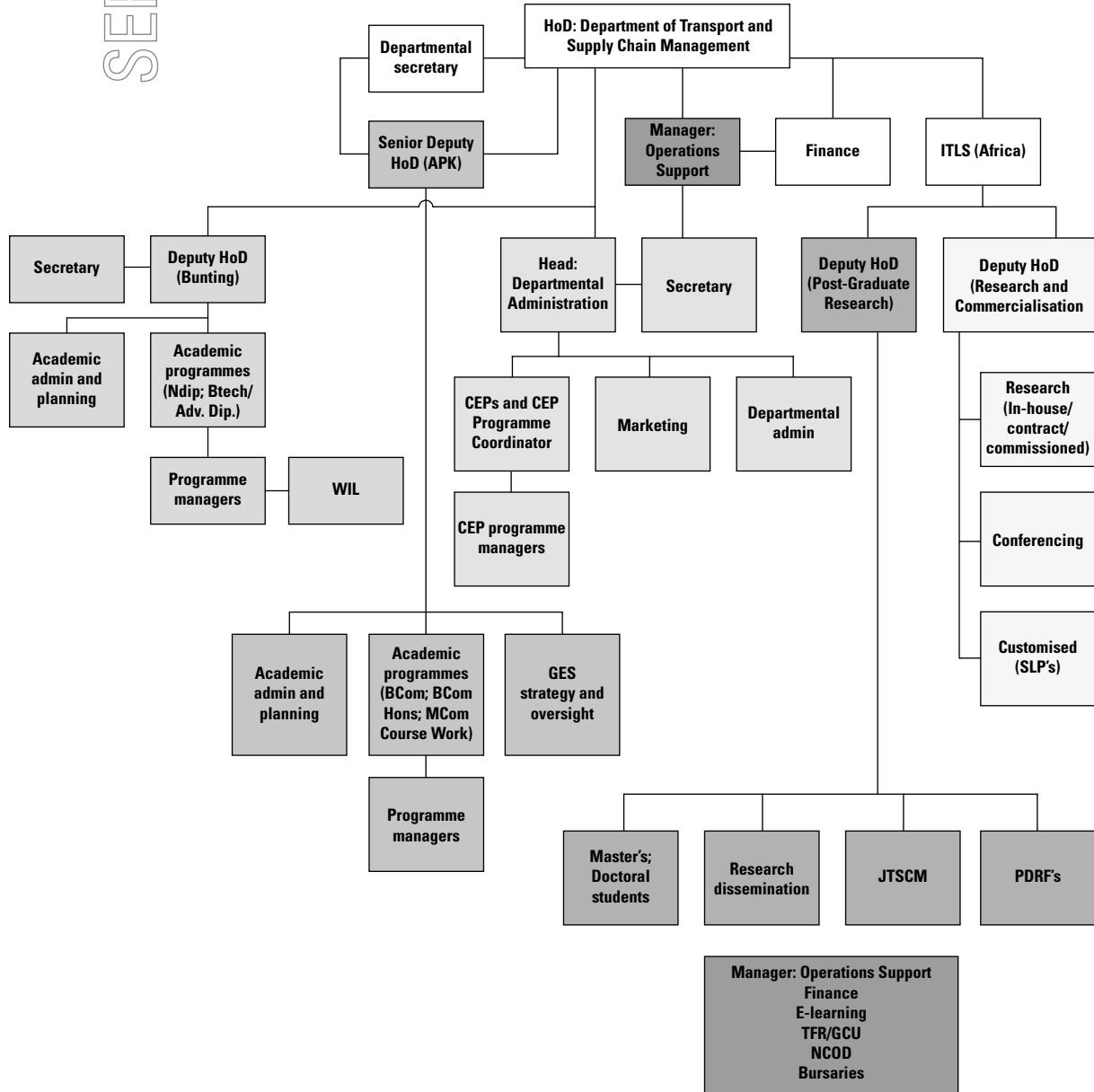
- To continuously study the transport, logistics and supply chain business environments in South and southern Africa.
- To establish a database on critical and key transport and supply chain trends in South and southern Africa.
- To secure commercial research projects by offering customized client-focused 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.

Skills Gap Research

The developing and rapidly changing global economy requires logistics and supply chain professionals to be equipped with appropriate professional, managerial and technical skills to exploit the economic opportunities that presents itself. Despite the fact that a great deal of students are taught and educated each year, South Africa continue to experience a severe supply chain talent shortage, which presents a significant constraint to the country's economic growth potential. The current global Covid-19 pandemic not only highlighted the significance of global supply chains but also the importance of having qualified, skilled and experienced employees.

During the last year, the skills research delivered two peer reviewed articles, bringing the skills research output thus far to two non-peer reviewed publications, four peer reviewed articles, ten peer reviewed conference proceedings and numerous non-peer reviewed conference presentations. In addition, an article on the skills gap in Kenya is currently in the final stages of review and it is envisaged that it will be published later this year. Currently, the latest student and practitioner surveys data, along with a recruitment agency dataset, is also being developed into articles (anticipated to be ready for publication at the end of 2021).

Travel behaviour of Gauteng residents

The Institute of Transport and Logistics Studies (Africa) at the University of Johannesburg in collaboration with ITLS Sydney is conducting a survey to determine the travel patterns of Gauteng residents. The aim of the survey is to understand the nature of residents' daily trips (travel patterns) as well as the factors that would be taken into account in future trips including which mode of transport to use. The survey seeks information on commuters' recent experiences of using various modes of transport, the characteristics of the mode(s) of transport recently used as well as specific information about respondents' regular work week trips. To date the survey design has been completed and data collection is underway. Once data collection is completed the outcomes of the survey will be published in peer reviewed conference proceedings and academic journals.



Potential projects in the pipeline

The World Food Programme (WFP) - Transport Market Survey for Southern Africa Corridors Study

Following a request from the United Nations World Food Programme, ITLS (Africa) submitted a proposal for a study on cost drivers and market catalysts in the market for transport services for humanitarian goods in Southern Africa. This study is intended to increase WFP's knowledge of local market conditions for contract transport and associated logistics services through surveys and the key informant interviews with relevant stakeholders in the freight transport sector in Southern Africa. The team is awaiting feedback on the proposal.

Transport Education Training Authority (TETA) Research Chair

ITLS (Africa) was invited to and submitted a proposal to host a research chair funded by the Transport Education Training Authority (TETA). The scope of activities for the research chair are aimed to enhance the TETA's mandate namely to facilitate skills development and training in the transport sector. To this end, the proposal outlines a range of activities that evaluate the effectiveness of programmes currently sponsored by the TETA as well as and developing new programmes to support the needs of the transport industry. In addition, it is proposed that the research chair will improve research and innovation capacity by conducting high impact research in areas such as travel behavior and skills requirements in the transport sector among others. The team is awaiting feedback on the proposal.





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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
DT Diane	Environmental sustainability as a factor for selecting a third party logistics service provider		✓
P Dibetso	Barriers and feasibility of establishing a conventional bus service between Johannesburg and Maseru		✓
C Erens	Impact of Industry 4.0 technologies on mining logistics.		✓
BG Gwereti	Horizontal collaboration among logistics service providers, City Deep	✓	
G Joorst	Procurement capabilities and vulnerabilities among petrochemical companies in SA (This candidate submitted his thesis for examination in September 2021)		✓
N Kambule	An analysis of the Gautrain strategic objectives	✓	
K Khitsane	Assessing the viability of block-chain technology implementation on the supply chain in the Natal corridor		✓
M Khumalo	Unlocking value in the food manufacturing end-to-end supply chain in uncertain times through demand accuracy.		✓
N Lawrence	Maximising customer value: Lean six sigma within the supply chain	✓	
H Magopa	Evaluation of value for money in public procurements of road infrastructure in Limpopo Province		✓



LT Makhubela	Factors affecting the implementation of electronic procurement at a state owned enterprise in South Africa	✓	
M Mlambo	Investigating environmental sustainable practices and operational performance of trucking companies in the Western Cape	✓	
L Mogale	Analysis of buyer-seller relationship in South African hairdressing industry		✓
M Muranganwa	Supply-side determinants of medicine stock-outs in South African public hospitals.		✓
P Musariri	An investigation into the challenges associated with implementing green logistics in the freight industry in Pretoria, South Africa	✓	
A Ndobu	Effect of logistics information systems adoption on operational performance of logistics service providers		✓
T Pheto	Improving the supply chain resilience of Supermarkets in the Rustenburg local municipality		✓
TM Ramagoshi	Preparedness of the cities of Johannesburg and Tshwane: Response to disaster events	✓	
M Tlholwe	The potential use of internet of things in South African healthcare supply chains		✓
R Tshifhumulo	The projected impact of supply chain risks on the South African manufacturing industry	✓	
C Uriesi	Passenger perceptions of Metrorail services in Johannesburg	✓	
A Zozi	Streamlining supply chain collaboration towards a change management strategy for improved communication and proactive responses		✓
N Zubaida	The effect of on-demand logistics platforms on logistics efficiency in South Africa: An extended case study approach of Load Africa	✓	



Master's graduates for 2021

Name of Student	Title of Study	Dissertation based	Course Work	Date of graduation
E Naidoo	The association between supply chain collaboration and customer satisfaction at a mobile communications company in South Africa		✓	October 2021
N Rankeng	An aggregator business model for enterprise and supplier development in the transport industry in South Africa		✓	March 2021
OK Sebitlo	Benchmarking South African practices on public-private partnerships in transport against the four largest developing economies	✓		May 2021

REGISTERED DOCTORAL STUDENTS

O Atiga	A comparative analysis of the public and private medical commodity supply chains in Ghana, the case of the last mile delivery in the Upper East Region (<i>This candidate submitted his thesis for examination in September 2021</i>)
L Basson	Digital Humanitarian Supply Chain Framework
B Duri	Transportation needs of people with disabilities: a means to inclusive transportation in the City of Tshwane
S Gumbi	Resourcing road safety support institutions for social and economic development in South Africa
G Heyns	An assessment of the supply chain skills gap in South Africa
L Jacobs	Impact of the implementation of Single Level Exit Pricing on the South African pharmaceutical supply chain
A Kashanku	Relationship between road transport infrastructure and household income, poverty, diversification and produce sold in rural Uganda
E Mogire	Last mile delivery and customer satisfaction of online retailers in Kenya
E Moyo	Conceptualising a sustainable food cold chain model for developing countries



P Muzvimbiri	Appraising transport and logistics clusters as a means of economic revitalisation for Zimbabwe
MK Mwale	Forecasting road-based public transportation needs for developing cities: A case of Lusaka city
M Steenkamp	Transport infrastructure, logistics capability and foreign direct investment in Sub-Saharan Africa
N Tshetu	The impact of the Yamoussoukro declaration on airlines
C Tsikada	Zimbabwean smallholder paprika growers from field to fork – Sustainable value network analysis
N Rankeng	Collaborative procurement practices in a global pandemic. Case studies from South African companies
D Raza	Diversified service provision and the success of freight forwarding in South Africa

Pre-registered doctoral students

Name of student	Field of research
J Geldart	Developing a framework for the adoption of commercial electric vehicles in South Africa



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.

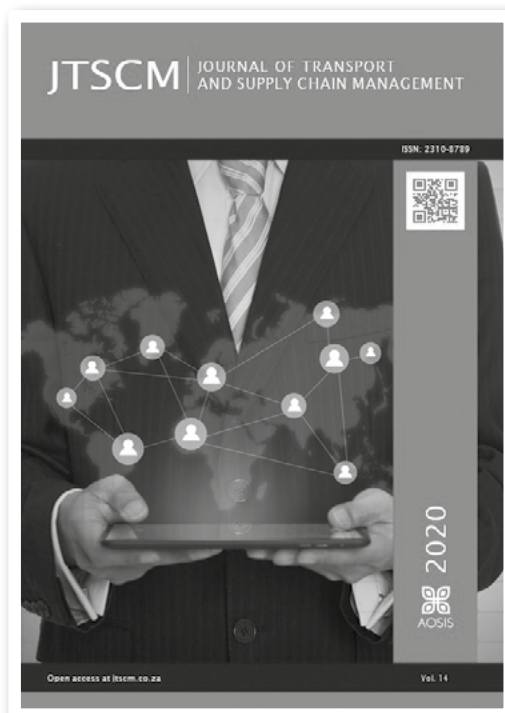
The following table sets out the number of graduates on all qualifications between 2013 and 2021 for the respective qualifications:

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
TOTAL	10	41	4





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 fourteenth edition of the journal was published in November 2020. 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 223 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 current version (2021) can be viewed in full at: <http://jtscm.co.za/index.php/jtscm>

The following table contains an overview of the articles published for 2020 and 2021 (the 2021 edition has not yet been closed).



Year	Article	Authors
2021	Responding to supply chain disruptions caused by the COVID-19 pandemic: A Black Swan event for Omni channel retailers	AN Weber
	The relationship between resilience and organizational control systems in the South African aviation industry	E Serfontein KK Govender
	An exploration of guesthouse fresh produce purchasing behavior and supply chains in Johannesburg	H vd Berg K Mearns
	Optimal transit corridors for Ethiopia	TB Takele TD Tolcha
	An analysis of the impact of investment in public transport on economic growth of metropolitan cities in South Africa	LK Hanyurwumutima S Gumede
	The impact of measuring driver performance on the bulk fuel supply chain	L Sithole R Luke S Nabee
	A bibliometric analysis of the Journal of Transport and Supply Chain Management	HW Ittmann
	Drivers and barriers to green supply chain management in the South African cement industry	A Nteta J Mushonga
	Assessing construction material manufacturers' warehouse processes from a customer satisfaction perspective	PO Alumbugu WWM Sakantu I Saidu
	The effects of supply chain cooperation on humanitarian relief operations: A case of Cyclone Idai in Zimbabwe	F Chari O Muzinda C Novukela BS Ngcamu
	The application of geographic information system as an intelligent system towards emergency responses in road traffic accident in Ibadan	AA Audu OF Iyiola AA Popoola BM Adeleye S Medayese C Mosima N Blamah
	Investigating open innovation strategic alignment for sustainable competitive advantage in the automotive supply chain in South Africa	AM Gonyora S Migiro B Ngwenya P Mashau



2020	Identifying transport policy gaps in student travel demand management in South Africa	OH Mokwena M Zuidgeest
	Identification of variables proposed for inclusion into a regional railway corridor transportation economic regulatory framework: A case of the Southern African Development Community North-South Corridor	LM Sakanga E Mwanaumo WD Thwala
	Promoting public value by implementing reverse logistics in the South African Police Service	E Mthabini A Mazenda T Masiya
	The Johannesburg negotiated bus rapid transit contract: How has it benefitted the stakeholders	T Mbara B Maseko
	Causes of road accidents in Botswana: An econometrical model	T Mphela
	Air passenger movements and economic growth in Sri Lanka: Co-integration and causality analysis	R Higgoda W Madurapperuma
	Exploring country-level logistics infrastructure, market potential, trade ports amongst developed and emerging markets	OT Aydas AD Ross H Parker
	Stakeholders' views regarding macro-environment impacts on commercial flight operations in South Africa	E Serfontein KK Govender
	The effectiveness of humanitarian supply chain management in Zimbabwe	BE Mushanyuri BS Ngcamu
	The effect of supply chain management in governance: Public sector perspectives	NS Nkwanyana AT Agbenyegah
	Determinants of effective high-risk cargo logistics at sea ports: A case study	F Saruchera
	Supply Chain management enablers, barriers and disruptions in the animal feed industry in the Western Cape Province of South Africa	PM Gomera C Mafini
	The challenges behind producing a bottle of wine: Supply chain risks	RT Naudè JA Bardenhorst-Weiss
	Closure and restart as an option for a sustainable South African national airline	J Vermooten
	Physical distribution challenges and adaptations: A qualitative study of South Africa-based organisations operating in emerging African markets	SDJ Jaqueta EN Mashilo K Mocke AFA Agigi
	Skills frameworks: A focus on supply chains	R Luke J Mageto





1. Nabee, S., Mageto, J. and Pisa, N. (2020). Investigating predictors of academic plagiarism among university students. *International Journal of Learning, teaching and Educational Research*, Vol 19 (12) <https://doi.org/10.26803/ijlter.19.12.14>
2. Bag, S., Gupta, S., Kumar, S., and Sivarajah, U. (2020). Role of technological dimensions of green supply chain management practices on firm performance. *Journal of Enterprise Information Management*, Vol 34 (1) <https://doi.org/10.1108/JEIM-10-2019-0324>
3. Bag, S., Viktorovich, DA., Sahu, AK., and Sahu, AK. (2020). Barriers to adoption of blockchain technology in green supply chain management. *Journal of Global Operations and Strategic Sourcing*, Vol 14 (1) <https://doi.org/10.1108/JGOSS-06-2020-0027>
4. Preston, J. and Walters, J. (2020) Workshop 1 report: Models of mainstream public transport provision. *Research in Transportation Economics*, Vol 83 (1) <https://doi.org/10.1016/j.retrec.2020.100924>
5. Walters, J. (2020) Understanding bidder behaviour: The case of the Mamelodi contract. *Research in Transportation Economics*, Vol 83 (1) <https://doi.org/10.1016/j.retrec.2020.100963>
6. Pisa, N. (2021). Innovations to improve rail freight efficiencies: Considerations for emerging economies. *Journal of Contemporary management*, Vol 18 (1). <https://doi.org/10.35683/jcm20093.103>
7. Pisa, PT., Pisa, NM. Chikandiwa, P. and Chikandiwa, A. (2021) Economics growth as an underlying probable systemic driver for childhood obesity in South Africa: A Joinpoint regression and ecological analysis over 10 years. *South African Medical Journal*, Vol 111 (3) DOI:10.7196/SAMJ.2021.v111i3.14669
8. Mageto, J. (2021) Big data analysis in sustainable supply chain management: A focus on manufacturing supply chains. *Sustainability*, Vol 13 (13) <https://doi.org/10.3390/su13137101>
9. Gutsa, L. and Luke, R. (2021) An assessment of factors affecting absenteeism. Case study of a major South African Manufacturer. *African Journal of Employee Relations*, Vol 45 (1) <https://doi.org/10.25159/2664-3731/8388>
10. Bag, S., Luthra, S., Mangla, SK. and Kazancoglu, Y. (2021), Leveraging big data analytics capabilities in making reverse logistics decisions and improving remanufacturing performance. *The International Journal of Logistics Management*, Vol 32 (3) <https://doi.org/10.1108/IJLM-06-2020-0237>
11. Bag, S., Yadav, G., Dhamija, P. and Kataria, KK. (2021) Key resources for industry 4.0 adoption and its effect on sustainable production and circular economy: An empirical study. *Journal of Cleaner Production*, Vol 281 (1) <https://doi.org/10.1016/j.jclepro.2020.125233>



12. Bag, S., Gupta, S., Kumar, A. and Sivarajah, U. (2021) An integrated artificial intelligence framework for knowledge creation and B2B marketing rational decision making for improving firm performance. *Industrial Marketing Management*, Vol 92 (1) <https://doi.org/10.1016/j.indmarman.2020.12.001>
13. Rossouw, R., Fieger, P. and Dyason, D. (2021) Covid-19, The effect of lockdowns on retail expenditure and displacement effects on the regional economy. *Australasian Journal of Regional Studies*, Vol 27 (1)
14. Chakamera, C. and Pisa, N. (2021). Associations Between Logistics and Economic Growth in Africa. *South African Journal of Economics*. Vol 89 (3) <https://doi.org/10.1111/saje.12272>
15. Srivastava, G. and Bag, S. (2021). Artificial neural network to diagnose the consumer behaviour towards non-fuel products and services at filling stations. *International Journal of Technology Marketing*, Vol. 15 (2) <https://doi.org/10.1504/IJTMKT.2021.10036874>





ITLS (Africa) hosted a number of TransportSIG events during the course of 2020/2021 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 2020/2021 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 2021 was held in March where the theme was **“The Impact of AARTO – How are we going to implement this?”** Speakers included Dr Peter Kilbourn (Deputy Head: Department of Transport and Supply Chain Management, University of Johannesburg - UJ); Dr Kaine Monyepao (Deputy Registrar: Strategic Development, Road Traffic Infringement Agency - RTIA); Mr Oliver Naidoo (Managing Director: JC Auditors); Advocate Stefanie Fick (Executive Director: Accountability Division, Organisation Undoing Tax Abuse - OUTA); Mr Bazil Govender (Executive Manager: South African Bus Operators Association - SABOA); Mr Gavin Kelly (Chief Executive Officer: Road Freight Association – RFA); Mr Sandile Ntseane (General Manager: South African Vehicle Rental and Leasing Association – SAVRLA) and Mr Nhlanhla Tshabalala (Top Six Taxi Association).

The second event was held in June and the theme was **“Improving Public Transport: International Best Practices”**. Some of the speakers included Prof Jackie Walters (Director: ITLS Africa, Department of Transport and Supply Chain Management, University of Johannesburg); Prof Andrea Giuricin (Transport Economist at CESISP, University Milan Bicocca); Mr Jack van der Merwe (Chief Executive Officer: Gautrain Transport Authority); Mr Bazil Govender (Executive Manager: South African Bus Operators Association - SABOA); Mr Tommie Snyman (ITS Industry Expert, Huawei Enterprise South Africa) and Mr Neil Smith (International Public Transport Specialist, United Kingdom).

The third session for 2021 took place in September and was themed **“Importance of Agile Supply Chain in the face of civil unrest”**. This session featured Prof Noleen Pisa (Head: Department of Transport and Supply Chain Management, University of Johannesburg); Mr John Rocha (Chief Director: Trade Invest Africa, Department of Trade, Industry and Competition); Ms Carli Venter (Marketplace Strategic Executive: Unitrans Supply Chain Solutions); Mr Glen Steyn (Project Manager: Port of Cape Town, Western Cape Department of Economic Development and Tourism); Ms Sue Moodley (Chair: Harbour Carriers Association); Ms Louise Wigggett (Managing Director: Global Trade Solution); Ms Jolene Wium (Agrihub Inform) and Ms Hashalia Daya (Business Retention Officer, KZN).

The final transport forum for the year took place on 07 October 2021 during Transport Month. The theme for the event was **“The Impact of COVID-19 and Civil Unrest on Transportation and Infrastructure Provision”**. Speakers included Dr Joash Mageto (Senior Researcher: Department of Transport and Supply Chain Management, University of Johannesburg); Mr Mike Schussler (Chief Economist); Mr Skhumbuzo Macozoma (Chief Executive Officer: South African National Roads Agency Limited – SANRAL); Mr Warwick Lord (Chief Executive Officer: Cato Ridge Logistics Hub Consortium); Mr Moshe Motlohi (Manager: Port of Durban, Transnet National Ports Authority – TNPA); Ms Mesela Nhlapo (Chief Executive Officer: African Rail Industry Association – ARIA); Mr Trevor



Teegler (General Manager: Lanseria International Airport); and Mr Sibongiseni Khati (Chief Operating Officer: Transnet Pipelines).

Since the inception of TransportSIG in 2007, approximately 738 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 – 2020/2021

1. Walters, J. (October 2020) Smart Cities in the Digital Age: A focus on the role of public transport. Smart Mobility Conference 2020.
2. Walters, J. (December 2020) Driving change in public transport operations. TransportSIG.
3. Luke, R. (April 2020) Discussant: Black working-class women and the crisis of public transport in Soweto and Orange Farm. The Centre for Education Rights and Transformation, with UJ library.
4. Walters, J. (May 2021) Overview of public transport uncertainty within the public transport sector. TransportSIG.
5. Walters, J. (June 2021) Risk in public transport contract design. TransportSIG.
6. Heyns, G.J. and Luke, R. (July 2021) Travel Behaviour and Attitudes of Young People in Johannesburg. Metropolitan Area, South Africa, Paper presented at the 39th Annual Southern African Transport Conference.
7. Valashiya, M. and Luke, R. (July 2021) Enhancing supply chain information sharing with third party logistics service providers. 25th International Symposium on Logistics.
8. Thaba, S.C. (July 2021) Mine Operations in South Africa: Community and Employee Reactions, World Congress on Engineering, London U.K.
9. Laby, I., Shabalala, S., Molokwane, B. and Van der Walt, J. (August 2021) Transportation behaviours and challenges of non-resident students at a South African university, 4th European International Conference on Industrial Engineering and Operations Management (IEOM) in Rome, Italy.
10. Luke, R. (August 2021) Online plus Managing modern-day supply risk and demand risk disruption. Supply Chain Risk Symposium 2021.
11. Mageto, J. and Luke, R. (September 2021) Logistics service and online shopping customer satisfaction, 14th International Business Conference, held virtually through video conference facilities
12. Hadebe, N.P., Heyns, G.J. and Kriel, E (September 2021) Supply Chain Collaboration and Organisational Performance, Paper presented at the 14th International Business Conference.
13. Mavhungu, L.L., Kilbourn, P.J. and Mvubu, M. (September 2021) Last-Mile Distribution Challenges for a Forecourt Convenience Stores' Distributor, 14th International Business Conference, Virtual, South Africa.
14. Bag, S., Kilbourn, P., Pisa, N. and Giannakis, M. (September 2021) Key success factors for supply chain sustainability in COVID-19 pandemic: an ISM approach. International Conference - Advances in Production Management Systems, Nantes, France.



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 a number of 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 1160.





There are currently four 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 Chengete Chakamera

Dr Chengete Chakamera joined the department in June 2019 as PDRF under the supervision of Prof Noleen Pisa. He obtained his PhD in Economics in July 2018 from the University of the Witwatersrand (Wits). Dr Chakamera is an emerging researcher with over five years of experience in tertiary education. Since joining the department he has been actively contributing to research output and has been involved in other activities in the department, including lecturing, tutoring, postgraduate supervision, marking and moderation. Moreover, he has been a member of the high degree committee, responsible for evaluating PhD and Masters applications and ethical clearance applications. His research output to date includes two published journal articles, one accepted journal article, one conference paper, five journal articles in the journal review process, and two papers in preparation. Dr Chakamera has since been appointment as a Senior Lecturer in the department from the 1st of September 2021.

Dr Liberty Sheu Mapamba

Dr Liberty Sheu Mapamba joined the department in September 2019 under the supervision of Prof Noleen Pisa. Before joining the University of Johannesburg, Dr Mapamba worked as a management consultant in a boutique strategy consulting firm. As a consultant, he worked with several organisations across sectors linked to the infrastructure development pipeline, including governments, multilateral institutions, and non-governmental organisations. He holds a PhD in Development and Management engineering from the North-West University. His current research focuses on a multi-disciplinary approach to building organisational and supply chain resilience in transitional situations, focusing on the transition to 4IR and the low carbon global economy. Since joining the department, he has contributed to two conference papers, three journal articles and has three research articles in preparation.



Dr Mandla Mvubu

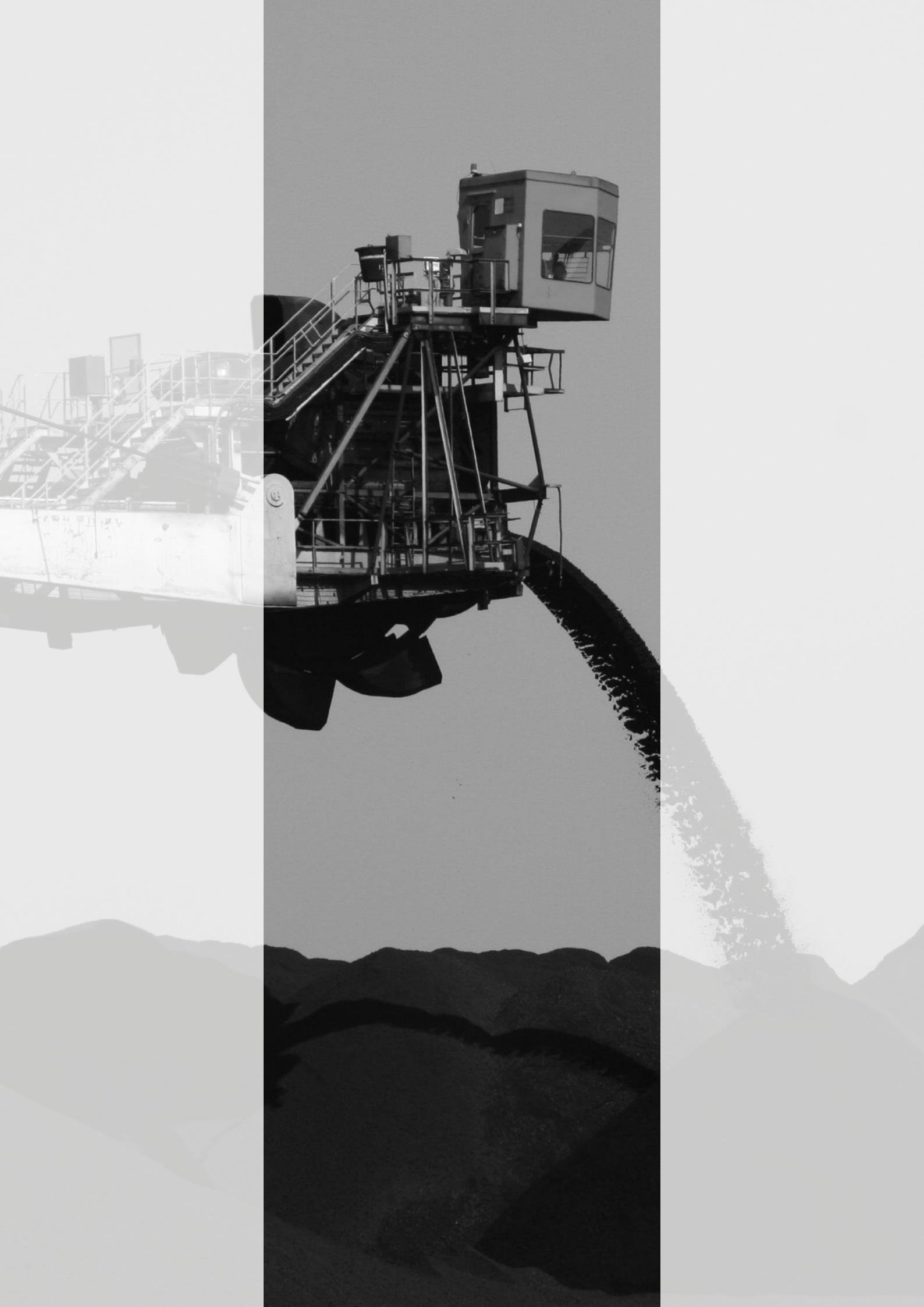
Dr Mandla Mvubu received his doctorate degree from the University of KwaZulu-Natal on 23 April 2020. He completed his PhD in the College of Law of Management Studies. His PHD research focused on supply chain risk management in the South African third-party logistics (3PL) industry. His current research focuses on the implementation of Artificial intelligence (AI) technologies in warehousing.



STRATEGIC PLANNING

Senior academics of the Department of Transport and Supply Chain Management embarked upon a strategic review of ITLS (Africa). Four virtual sessions were held (with limited duration each due to the virtual nature of the planning process) and the main results shared with the Board of Advice during October 2021 meeting to solicit comments and inputs. It is envisaged that the process will conclude during November 2021 where action plans and time lines will be determined.





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