

At a Glance



ANNUAL REPORT 2021/22

ITLS (Africa)

INSTITUTE OF TRANSPORT
AND LOGISTICS STUDIES
(AFRICA)



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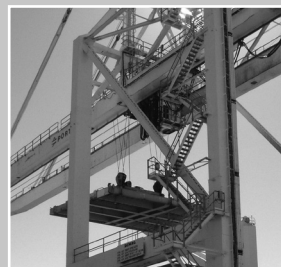
The Department of Transport and Supply Chain Management was established in 1968 and is widely recognized for its education, training and research in the fields of transport economics, logistics and supply chain management.

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	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)
Dr 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	Jojobe 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

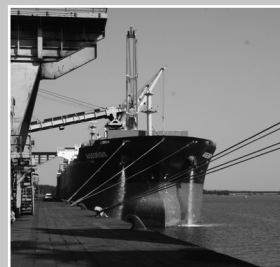
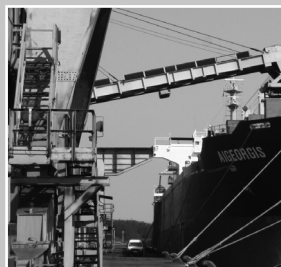




OBJECTIVES

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

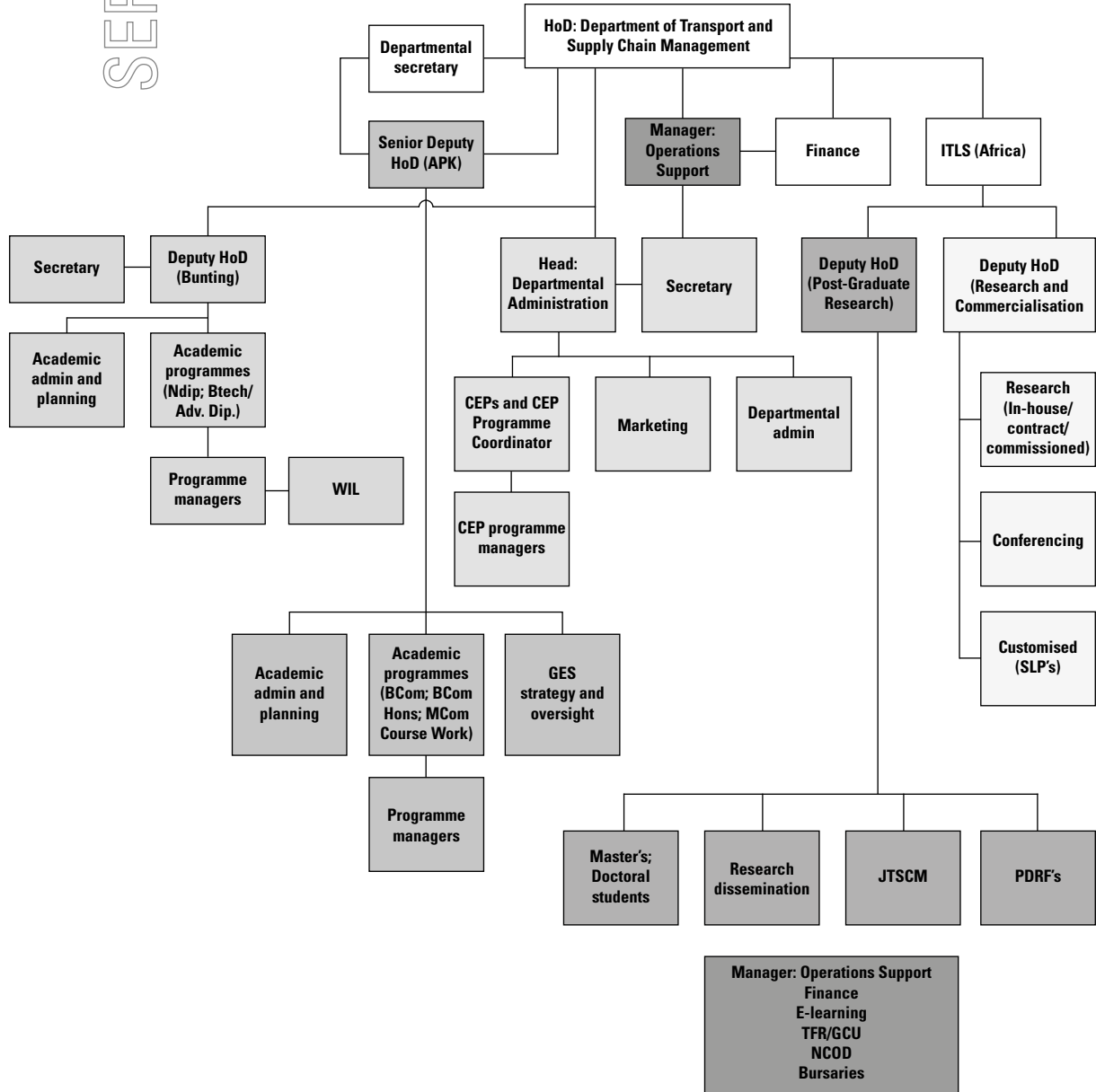
- To continuously study the transport, logistics and supply chain business environments in South and southern Africa.
- To establish a database on critical and key transport and supply chain trends in South and southern Africa.
- To secure commercial research projects by offering customized client-focused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

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 trips. To date the data collection has been concluded. Initial interesting findings from the survey show that South Africa like the rest of the world had three weeks of a total lockdown in March 2020, a gradual re-opening. During this period some workers had their days cut short, those in essential services continued to work, while students were subjected to remote learning. Companies and Universities provided either mobile data or WIFI at home to make this last segment possible. SARS-CoV-2 changed the transport dynamic of Soweto following this hybrid work/education pattern. During the survey period of July 2022, most returned to full time work, but a large percentage continued with hybrid arrangements. Data was collected from shopping centres and taxi ranks to complete the surveys so as to ensure the reliability of the sample. In the City of Johannesburg, surveys were conducted throughout the geographical areas to cover a large base. For shopping purposes, many use public transport but workers also shop close to their place of work, instead of travelling specifically to do shopping. Over the past 20 years many shopping centres have been developed in Soweto, from smaller convenience centres to large community centres. As at July 2022, the rising cost of transport had resulted in car sharing, continued hybrid working and studying and while some would prefer non-remote working many are quite happy with this arrangement. To boost the Soweto-Tshwane sample, surveys were conducted at the Gautrain stations and long distance taxi ranks. For the most part workers are moving close to their work place. The initial findings highlight that students live in Tshwane from Monday to Friday and return home at weekends. Most employees do not pay for parking at work, unless it is in the CBD of the City Centre but costs are shared when travelling together. In order to ensure that the fee structure for the public transportation was correctly reflected, costs from parts of Soweto to the main taxi/bus ranks for connecting purposes and from the taxi/bus ranks to the main employment areas of Johannesburg were collected as part of the data collection. The outcomes of the survey will be published in peer reviewed conference proceedings and academic journals.



Transport Education Training Authority (TETA) Research Chair

In 2022, Prof Noleen Pisa secured the Transport Education Training Authority (TETA, <https://www.teta.org.za>) 4IR Research Chair, valued at R5m per year. The scope of activities for the research chair aim to enhance the TETA's mandate namely to facilitate skills development and training in the transport sector. To this end, the research chair will focus on 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, 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 research focus areas of the chair are outlined below:

Urban Mobility in Emerging Markets – A research group has been established in the department based on the gap in literature and practical work within the contexts of emerging markets and developing countries on topics like urban transportation and travel behavior and their connections to a wide range of disciplines like 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 originates from high-income countries, while developing countries have 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. The suggested group focuses on urban mobility, particularly urban travel behavior with strong connection with socioeconomics, the built environment, passenger preferences and decisions, self-selections, lifestyles, and attitudes.

Skills – ongoing project to determine the skills required by transport and logistics practitioners, as well as the skills gap within the current market. The purpose is to identify the skills required by prospective market entrants. It therefore provides an overview of the skills and competencies that could be the focus of future training and education interventions.

Green transport – development of a course in green transport, together with University of Johannesburg's Process, Energy and Environmental Technology Station (UJ-PEETS), and UJ's Department of Geography. The main aim of the course delivery is to develop green transport skills within the public sector.

State of Transport Opinion Poll – an assessment of the most important transport issues faced by South African citizens. Provides an overview of the critical focus issues for government intervention in the transformation of the transport system

Mobility as a Service (MaaS) – in early stages of development. Consideration of MaaS for the purposes of transformation of the public transports system through disruptive technologies

Car Ownership – an overview of car ownership intentions within the South African environment. The aim is to identify issues within the transport system that influence travel intentions and areas for transformation

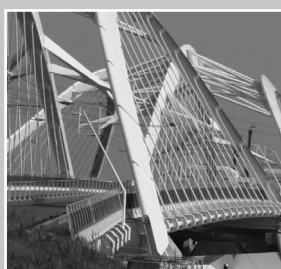




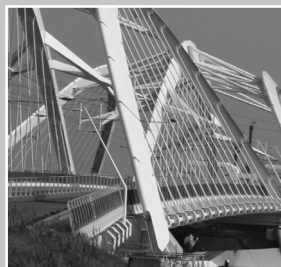
ITLS's research capacity is expanded by means of the inclusion of master's and doctoral students into the ITLS (Africa) structure. This ensures that research at this level remains focused and aligned with national research imperatives, thereby adding relevance and value to South and southern Africa's 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	Full Research (Dissertation Based)	Course Work (Mini-dissertation)
C Erens	Impact of Industry 4.0 technologies on mining logistics (<i>submitted for examination</i>)		✓
BG Gwereti	Horizontal collaboration among logistics service providers - City Deep	✓	
N Kambule	An analysis of the Gautrain strategic objectives	✓	
K Khitsane	The adoption of blockchain technology by a South African railway operator on the container 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	An assessment of value for money in public procurement of road infrastructure in Limpopo Province		✓
S Makuwa	Implementation of supply chain management best practices within Armaments Corporation of South Africa		✓
M Mlambo	Investigating environmental sustainable practices and operational performance of trucking companies in the Western Cape (<i>submitted for examination</i>)	✓	
L Mogale	The effect of supply chain management practices on the performance of fast-food micro-enterprises in Alexandra township		✓



M Mothobela	Demand planning and its impact on, on-time delivery		✓
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		✓
O Pitso	Improving last mile delivery through collaboration with South African minibus taxi industry and 3rd party logistics providers	✓	
T Sirenya	An evaluation of the effect of consumer electronics of consumer applications returns on warehouse functionality in Johannesburg	✓	
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		✓
M Tukuta	Logistics drivers and performance of smallholder tobacco farmers in Mashonaland West Province, Zimbabwe	✓	
C Uriesi	Passenger perceptions of Metrorail services in Johannesburg (<i>submitted for examination</i>)	✓	
N Zubaida	The effect of on-demand logistics platforms on logistics efficiency in South Africa: An extended case study approach of Load Africa	✓	

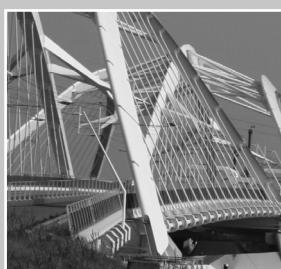


Master's graduates for 2021 / 2022

Name of Student	Title of Study	Dissertation based	Course Work	Date of graduation
DT Diane	Environmental sustainability as a factor for selecting a third party logistics service provider		✓	May 2022
G Joorst	Procurement capabilities and vulnerabilities among petrochemical companies in SA		✓	March 2022
M Muranganwa	Supply-side determinants of medicine stock-outs in South African public hospitals		✓	October 2022
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

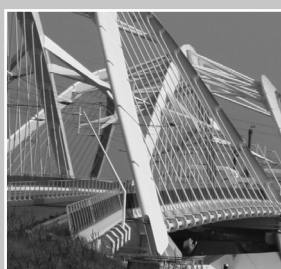
L Basson	Digital Humanitarian Supply Chain Framework
G Heyns	An assessment of the supply chain skills gap in South Africa
A Kashanku	Relationship between road transport infrastructure and household income, poverty, diversification and produce sold in rural Uganda
E Mogire	Last mile delivery and customer satisfaction of online retailers in Kenya (<i>submitted for examination</i>)



E Moyo	Conceptualising a sustainable food cold chain model for developing countries
P Muzvimiri	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
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
M Khosa	Railway third party access system to be utilised to eliminate trucks between Johannesburg and Durban (N3 National Road, approximately 600KM) to foster South African Government's road-to-rail project
E Jesaya	Supply chain disruptions in the fast-moving consumer goods (FMCG) retail industry in Namibia
H Nuuyandja	An evaluation of urban transport policies in developing cities: A case study of Windhoek, Namibia and Harare, Zimbabwe
O Sebitlo	Analysis of capacity constraints in South Africa's bilateral air services agreements: An economic perspective



Doctoral graduates for 2021 / 2022

Name of Student	Title of Study	Date of graduation
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	October 2022
B Duri	Transportation needs of people with disabilities: a means to inclusive transportation in the City of Tshwane	October 2022

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 2022 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
TOTAL	10	44	6





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 sixteenth edition of the journal was published in November 2022. 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 260 (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 current version (2022) can be viewed in full at: <http://jtscm.co.za/index.php/jtscm>



The following table contains an overview of the articles published for 2021 and 2022 (the 2022 edition has not yet been closed)

Year	Article	Authors
2022	Using fuzzy expectation-based programming for inventory management	W Widowati S Sutrisno RH Tjahjana
	Employees' aptitudes and trepidations for the adoption of enterprise application architecture for supply chain management in small and medium enterprises: A case of Capricorn District Municipality	KX Lamola
	Exploring the factors affecting the adoption of blockchain technology in the supply chain and logistic industry	A Mthimkhulu O Jokonya
	Supply chain challenges in public schools in the uMzinyathi district, KwaZulu-Natal	N Langa MJ Naude
	Humanitarian logistics challenges in disaster relief operations: A humanitarian organisations' perspective	S Negi
	Distribution chain diagrams for fresh fruit supply chains: A baseline for emission assessment	MJ du Plessis J van Eeden LL Goedhals-Gerber
	The deployment of theory in logistics research: A systematic literature review	B Fisher-Holloway M Mokhele
	The impact of green supply-chain management on logistics performance in the construction sector in South Africa	EC Chinomona MB Bikissa-Macongue
	Motivations and barriers to using high-speed rail: An application of conjoint analysis – Insights from Vietnam	PTK Ngoc AM Ngoc
	Towards a framework to implement a digital agriculture value chain in South Africa for small-scale farmers	HJ Smidt O Jokonya
	The effect of planning horizon and information sharing on the optimisation of the distribution network of a fast-moving consumer goods supply chain	KS Abdallah MM El-Beheiry
	Supply chain performance and preferential procurement in Gauteng government department	B Sibanda N Tshikovhi
	Sustainable supplier selection factors and supply chain performance in the Nigerian healthcare industry	J Nsikan EA Affiah I Briggs N Koko
	Remediating sub-Saharan Airline challenges and limitations	GD Leitch J Chigada



	Urban freight characteristics and externalities: A comparative study of Gothenburg (Sweden) and Delhi (India)	S Dixit KR Rao G Tiwari S von Wieding
	Managing reputational risk during supply chain disruption recovery: A triadic logistics outsourcing perspective	T Blom W Niemann
	The role of seaports in regional development in the East Coast on Peninsular Malaysia: An evaluation through an exploratory factor analysis	R Somu J Jeevan NHM Salleh MR Othman K Mokhtar AH Ngah
	Factors hindering the implementation of the procurement plan in a selected national research utility	TF Mothupi RM Mukonza T Khalo
	The determinant of a five-stage downstream oil stream supply chain: A empirical study of Ghana	SK Owulaku T Tetteh
2021	Sustainable cost reductions obtained by using fourth party logistics provider	LS Kiggell PJ Kilbourn GJ Heyns
	Antecedents and consequences of integration of supply chain information systems into the textile supply chain: A Kenyan textile supply chain perspective	EG Masau
	Analaysing temperature protocol deviations in pome fruit export cold chains: A western Cape case	LL Goedhals-Gerber S Fedeli FE van Dyk
	The effect of internet of thigs on road freight industry	N Farquharson J Mageto H Makan
	Investigating the efficacy of inventory policy implementation in selected state-owned enterprises in the Gauteng province: A qualitative study	A Penny MF Mpwanya KR Lambert
	Enhancing business competitiveness of medium-sized food produce retailers through supply chain management	KF Monnagaaratwe KW Motatsa
	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
	Exploring supply chain business bullying of small and medium-sized business suppliers by dominant buyers in the apparel retail sector in Gauteng	S. Nabee E. Swanepoel
	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



SPECIAL COVID EDITION 2022

Article	Authors
Developing resilient supply chains in the Southern African Development Community: Lessons from the impact of COVID-19	OR Pretorius JE Drewes WH Engelbrecht GC Malan
Strategic supply chain alignment: The role of third-party logistics service providers during disruption recovery	C van der Westhuizen W Niemann
Revealed and future travel impacts of COVID-19 in sub-Saharan Africa: Results of big data analysis and a Delphi panel survey	R Behrens A Newlands
Tougher than the rest? The impact of COVID-19 on South African exporters	M Matthee A Saville W Flowerday C Bezuidenhout
Insights into the impacts of and responses to COVID-19 pandemic: The South African food retail supply chains perspective	O Omoruyi EA Dakora OO Oluwagbemi
A toolkit to aid in the education and training of supply chain members for the efficient distribution of the COVID-19 vaccine: A South African case	S Stoffberg-Müller LL Goedhals-Gerber J van Eeden
Analysing the impact of COVID-19 trade disruptions on port authority pricing and container shipping in South Africa	S Grater MG Chasomeris
Online shopping behaviour and service quality perceptions of young people in South Africa: A COVID-19 perspective	GJ Heyns PJ Kilbourn
The impact of COVID-19 on informal humanitarian supply chains – The case study of Zimbabwe	HW Ittmann

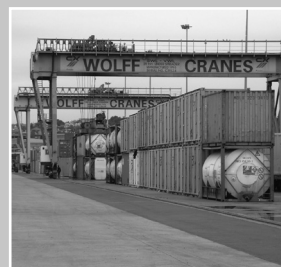




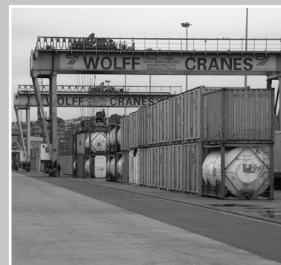
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5. Masoumi, H., (2021). "Residential location choice in Istanbul, Tehran and Cairo: The importance of commuting to work." **Sustainability**. Vol. 13(10) <https://doi.org/10.3390/su13105757>
6. Masoumi, H., Mohamed, I., and Aslam, A.B., (2021). "The relation between residential self-selection and urban mobility in middle eastern cities: The case of Alexandria, Egypt." **Urban Forum**. Vol. 32(1) <https://doi.org/10.1007/s12132-020-09414-4>
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8. Melika, M., Masoumi, H., Aslam, A.B., Gillani, S.M., Suhail, T. and Zulfikar, A., (2021). "The Relations between Street Network Configuration and Travel Behavior in Pakistan; the Optimal Level of Street Connectivity for a More Active Mobility." **Applied Sciences**. Vol. 11(22) <https://doi.org/10.3390/app112211015>
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ITLS (Africa) hosted several TransportSIG events during the course of 2021/2022 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 2021/2022 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 2022 was held in March and the theme was **“4IR and Electric vehicles”**. Speakers included Prof Noleen Pisa (Head: Department of Transport and Supply Chain Management, University of Johannesburg); Mr Yu Yang (Marketing Director, Huawei Technology); Mr Joachim Szepannek (Sales Manager, has-to-be-gmbh); Mr Eric Parry (Senior Manager, Sustainability, Volvo Group South Africa); Mr Ebrahim Takolia (EV Regulations Project Advisor); Mr Willem Cilliers (Solutions Architect, Western Cape Provincial Government); Mr Winstone Jordan (CEO, Gridcars) and Mr Carel Snyman (Solar Energy Specialist).

The second event took place in April where the theme was **“The consequences of an inadequate rail system on road infrastructure?”** Speakers included Mr Louw Kannemeyer (Engineering Executive, South African National Roads Agency Limited) -SANRAL; Prof Jan Havenga (Director, Growth and Intelligence Network-GAIN); Ms Mesela Nhlapo (CEO, African Rail Industry Association - ARIA); Mr Mike Daniel (CEO, RailRunner SA) and Mr Thuthuka Dladla (CEO, Mveladla Group (Pty)Ltd).

The third event was held in September and the theme was **“Airports, Operators and Associates – The way forward”**. Some of the speakers included Prof Rose Luke (Associate Professor, ITLS Africa, Department of Transport and Supply Chain Management, University of Johannesburg); Mr Roger Foster (CEO, SA Airlink); Mr George Mothema (CEO, Board of Airline Representatives South Africa – BARSA); Mr Aron Munetsi (CEO, Airlines Association of South Africa); Mr Trevor Teegler (GM, Lanseria International Airport); Mr Charles Shilowa (Group Executive Strategy and Sustainability, Airports Company South Africa – ACSA) and Mr Chris Burger (Non-Executive Director, Air Traffic Navigation Services – ATNS and Senior Director – CSIR).

The final transport forum for the year took place on 06 October 2022 during Transport Month. The theme for the event was **“Reviewing Transport and the Economy”**. Speakers included Prof Noleen Pisa (Head: Department of Transport and Supply Chain Management, University of Johannesburg); Mr Jack van der Merwe (CEO, Gautrain Transport Authority); Mr Vukani Nkasa (Economist Analyst – Transnet National Ports Authority); Mr Basil Govender (Executive Manager, South African Bus Operators Association – SABOA); Mr Gary Wilson (General Secretary, The South African Road Passenger Bargaining Council - SARPAC); Mr Kevin Kwinana (Consulting Manager, Pegasys); Ms Anna-Marie Lubbe (GM, Passenger Rail Agency of South Africa – PRASA); and Mr Gavin Kelly (CEO, Road Freight Association – RFA).

Since the inception of TransportSIG in 2007, approximately 878 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 – 2021/2022

1. 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.
2. Mavhungu, L.L. & Kilbourn, P.J., Mvubu, M., (September 2021). Last-Mile Distribution Challenges for a Forecourt Convenience Stores' Distributor. Paper presented at the 14th International Business Conference. 22-24 September 2021 Hermanus.
3. Pisa, N.M., Chengete, C., and Mapamba, L.S., (September 2021). Process excellence as a strategy for building firm and supply chain resilience in the fourth industrial revolution. Paper presented at the 14th International Business Conference. 22-24 September 2021 Hermanus.
4. 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. 22-24 September 2021 Hermanus.
5. Mageto, J.M., and Luke, R., (September 2021). Examining logistics service and online shopping customer satisfaction. Paper presented at the 14th International Business Conference. 22-24 September 2021 Hermanus.
6. Heyns, G.J., and Luke, R., (July 2022). The state of transport opinion poll: Gauteng 2021, 40th South African Transport Conference, CSIR International Convention Centre, Pretoria, 04 – 07 July 2022
7. Rankeng, N., and Luke, R., (July 2022). An aggregator business model for enterprise and supplier development: an emerging economy perspective. Proceedings from the 26th International Symposium on Logistics, University of Nottingham, United Kingdom. 10-13 July 2022
8. Adenigbo, A. J., Mageto, J., and Luke, R., (August 2022). Air Cargo Trade and Economic Diversification: Experience from Nigeria and Ghana. Paper presented at the 25th Air Transport Research Society (ATRS) Conference.
9. Walters, J., and Pisa, N., (September 2022). Review of South Africa's public transport system's sub-optimal performance. Paper presented at the 17th Biennial Conference on Competition and Ownership Issues in Public Transport (Thredbo) held in Sydney, Australia.
10. Chakamera, C., and Pisa, N., (September 2022). Transport Infrastructure, Environmental Degradation and Socioeconomic Development in 33 African countries. Paper presented at the 15th International Business Conference. 25 – 28 September 2022. Western Cape, Winelands.
11. Luke, R., and Heyns, G.J., (September 2022). Young people's perceptions of the road safety aspects in developing countries: A South African perspective. Paper presented at the 15th International Business Conference. 25 – 28 September 2022. Western Cape, Winelands.



ITLS (AFRICA) CONFERENCES AND INFORMATION SESSIONS

12. Erens, C.W., Kilbourn, P.J., and Makan, H., (September 2022). Exploring the impact of industry 4.0 technologies on the mining logistics. Paper presented at the 15th International Business Conference. 25 – 28 September 2022. Western Cape, Winelands.
13. Sirenya, T.L., Mkhabela, S.M., Du Toit, J.J., Robertson, B.I. Malan, N., and van der Walt, J., (September 2022). Social media and urban agriculture: An emerging field of study. Paper presented at the 15th International Business Conference, 25 -28 September 2022. Western Cape, Winelands.
14. Mvubu, M., and, Kilbourn, P.J., (September 2022). The implementation of AI driven solutions in warehousing: a semi- systematic literature review. Paper presented at the 15th International Business Conference, 25 -28 September 2022. Western Cape, Winelands.
15. Robson, L.L., Sirenya, T.L., Robertson, B.I., O'Connell, J.T.T., and, Van der Walt, J., (October 2022). Availability of alternative modes of transportation for Gauteng urban farmers delivering goods to customers. Proceedings of Social Sciences International Research Conference, 19 - 21 October 2022.





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 1160.





There is currently one full-time Post-Doctoral Research Fellow appointed within ITLS (Africa).

Below is a summary of the 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.



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