

Final Announcement



# *Southern African Transport Conference*

The 41<sup>st</sup> annual

**SOUTHERN AFRICAN TRANSPORT CONFERENCE and EXHIBITION**  
Incorporating the International Road Federation 75<sup>th</sup> birthday celebrations

## **THEME**

**Rethinking transportation: planning and building resilient systems to meet global externalities.**

## **PATRON**

**THE MINISTER OF TRANSPORT**



**transport**

Department:  
Transport  
REPUBLIC OF SOUTH AFRICA



International Road Federation  
Fédération Routière Internationale  
Federación Internacional de Carreteras

The conference is endorsed by the International Road Federation

## **VENUE**

**CSIR International Convention Centre (CSIR ICC), Pretoria, South Africa**  
(Hybrid component: Giving you limited digital access to the live event)

**10 to 13 July 2023**

“Early Bird” registration from 2 May - 10 June 2023  
(The full registration fee applies after 10 June)

**FINAL ANNOUNCEMENT AND PROVISIONAL PROGRAMME**

## **CONTACT DETAILS**

### **CONFERENCE SECRETARIAT (Correspondence and Enquiries)**

Ms Jacqui Oosthuyzen  
Mobile: +27 (0)83 324-9622

Webpage: [www.satc.org.za](http://www.satc.org.za)  
E-mail: [satc.conference@gmail.com](mailto:satc.conference@gmail.com)

## ORGANISING COMMITTEE SATC 2023

Bean, Dr Wilna	University of Pretoria
Behrens, Prof Roger (Deputy Chair)	University of Cape Town
Bruwer, Dr Megan	Stellenbosch University
De Beer, Mr Gerhard	Auto IH
Dimitrov, Ms Laverne	Development Bank SA
Gräbe, Prof Hannes	University of Pretoria
Jennings, Ms Gail	Research Consultant
Komba, Dr Julius	University of Pretoria
Mashiri, Mr Mac	Gwarajena Transport Research and Development
Mhlanga-Mochadibane, Ms Mavis	Tshwane Women in Transport
Mojafi, Mr Tebogo	South African Maritime Safety Authority
Mokonyama, Dr Mathetha (Chairman)	CSIR
Moselakgomo, Mr Madumetja	University of Johannesburg
Nordengen, Dr Paul	Heavy Vehicle Transport Technology Africa
Oosthuizen, Ms Jacqui	Secretariat
Pretorius, Dr Pieter	Innovative Transport Solutions
Ribbens, Dr Hubrecht	Consultant
Ssamula, Dr Bridget	Engineering Council of South Africa
Steyn, Prof Wynand	University of Pretoria
Venter, Dr Karien	CSIR
Visser, Prof Alex	University of Pretoria
Wang, Mr Yuchen	SACTCC
Zammataro, Ms Susanna	International Road Federation

## TECHNICAL COMMITTEE SATC

Adams, Prof Charles	Kwame Nkrumah University of Science & Technology, Kumasi, Ghana
Ölçer, Prof Dr Aykut	World Maritime University, Sweden
Prozzi, Prof Jorge	The University of Texas, USA
Wegman, Prof Fred	Delft University of Technology, The Netherlands

## INVITATION

Everyone in any way connected with transport is invited to register for the 41st Southern African Transport Conference (SATC 2023). It will be of particular interest to municipal and provincial employees, policy and decision-makers, academics, researchers, students and professionals active in the planning, construction, manufacturing, logistics, operation and safety of passenger and freight transport, road traffic, rail, ports, maritime and aviation. End-users will also find the conference of interest.

## SYNOPTIC PROGRAMME

From Monday to Thursday the sessions/workshops (1A-1D, 2A-2E, 3A-3E, 4A-4D) take place over a full day and it is therefore possible to **register for only one session** per day. However, once at the conference, delegates are welcome to **move between sessions**, space permitting.

<i>DATE</i>	<i>SESSION NO</i>	<i>EVENT</i>
<i>Monday, 10 July</i>		<i>Opening Session</i>
	<i>1A</i>	<i>Infrastructure</i>
	<i>1B</i>	<i>Treasury Workshop - Public Transport and Spatial Transformation</i>
	<i>1C</i>	<i>Traffic Engineering</i>
	<i>1D</i>	<i>Rural Development/ Capacity Building and The International Road Federation (Combined session)</i>

<b>Tuesday, 11 July</b>	<b>2A</b>	<b>Infrastructure</b>
	<b>2B</b>	<b>Public Transport</b>
	<b>2C</b>	<b>Traffic Management, Safety and Security</b>
	<b>2D</b>	<b>Freight and Logistics and Student Essay Winner Presentations (Combined session)</b>
	<b>2E</b>	<b>Rail</b>
<b>Wednesday, 12 July</b>	<b>3A</b>	<b>Engineering for Safe Systems Forum</b>
	<b>3B</b>	<b>Smart and e-Mobility</b>
	<b>3C</b>	<b>10<sup>th</sup> China-Africa Transport Co-operation Forum and Maglev /High Speed Trains Applications</b>
	<b>3D</b>	<b>Maritime</b>
	<b>3E</b>	<b>Aviation Workshop</b>
<b>Thursday, 13 July</b>	<b>4A</b>	<b>Integrated Public Transport Networks</b>
	<b>4B</b>	<b>Urban Mobility</b>
	<b>4C</b>	<b>Women in Transport Workshop</b>
	<b>4D</b>	<b>Public Private Partnership Workshop</b>

## SPECIAL EVENT

Opening – SOUL BLEND (Afro-Soul acapella group)

## SOCIAL FUNCTIONS

**Cocktail Party – 17:00 to 18:30, Sponsored by the International Road Federation:**

A cocktail party will be held at the conference venue after the day's proceedings on **Monday, 10 July 2023**. The following awards for papers presented at the conference will be announced:

- SATC Award for the “**Best Paper**”
- SATC Award for the “**Best Practical Paper**” (Sponsored by Chrisen Consulting)
- SAICE Transportation Division Award for the “**Best Paper by a Young Professional**”
- The ‘**Distinguished SATC Fellow**’ award

Delegates registered for any of the four days of the conference are invited to attend and are requested to indicate their attendance on the registration form.

## EXHIBITION

An exhibition – a showcase for all related industries – will run concurrently with the conference from Monday, 10 July to Thursday, 13 July 2023. Exhibition space (3m x 3m) is available on a first come, first served basis. Organizations wishing to exhibit are requested to contact the Conference Secretariat.

## PROMOTIONAL OPPORTUNITIES

Organizations interested in Promotional Opportunities should contact the Conference Secretariat.

## ACCOMMODATION

The following special rates will apply to delegates.

<b>TOWN LODGE MENLO PARK</b> Atterbury Rd, Menlo Park, Pretoria  Tel: 012 348-2711 (Ask for reservations) E-mail: <a href="mailto:tmenlo.resv@clhg.com">tmenlo.resv@clhg.com</a>	<b>CITY LODGE LYNNWOOD</b> Cnr Lynnwood & Daventry Rds, Lynnwood, Pretoria  Tel: 012 471-0300 (Ask for reservations) E-mail: <a href="mailto:cllynnwood.gm@clhg.com">cllynnwood.gm@clhg.com</a>
R1,250 single (room only) R1,425 single (breakfast included)	R1 650 single (room only) R1 825 single (breakfast included)
Quote <b>SOUTHERN AFRICAN TRANSPORT CONFERENCE (or Guest File no 1030685)</b> to qualify for the discounted rate	Quote <b>SOUTHERN AFRICAN TRANSPORT CONFERENCE (or Guest File no 1030685)</b> to qualify for the discounted rate

The above hotels are recommended for accommodation during the conference. **Delegates are responsible for their own arrangements.** They should book by E-Mail sending all the relevant details as well as either credit card details or prepayment and quoting the above reference details to qualify for the discounted rates and to ensure a booking at the hotel of their choice.

## TRANSPORT (Courtesy bus)

The organizers will arrange a courtesy bus to transport delegates from the above hotels to the CSIR ICC in the morning and back after the day's proceedings/social function. Delegates wishing to make use of the courtesy bus should tick the relevant section on the registration form.

## CONFERENCE DOCUMENTATION

Delegates registered for any of the conference sessions and workshops will receive the following documentation:

- Conference Handbook containing the programme and abstracts of the papers presented at SATC 2023.
- Memory Stick containing the full papers presented at SATC 2023.
- Delegate bag
- Pen and Notebook

Extra copies of the memory sticks will be available at a cost of R180.

## STUDENT ESSAY COMPETITION

The Organising Committee has instituted an essay competition open to all registered students (undergraduate as well as postgraduate) at tertiary institutions. The competition is held within the institutions (the Organising Committee has already been in contact with the institutions) and each institution will select its two winners.

Students need to prepare a five-page essay on " Rethinking transportation: planning and building resilient systems to meet global externalities". This relates to the theme of SATC this year. Final selections will be done by each institution, and the winning essays submitted to the SATC Secretariat ([satc.conference@gmail.com](mailto:satc.conference@gmail.com)) by 10 May 2023.

The two top authors from each institution and their lecturer will be supported to attend SATC 2023. Flights/ transport within South Africa (and neighboring countries) to Pretoria (discounted economy class), accommodation in Pretoria, meals and registration will be provided.

## REGISTRATION AND PAYMENT

### REGISTRATION – OPENING 2 MAY 2023

Registration is per day. This four-day conference consists of an opening session, plenary and parallel sessions, including Workshops and Forums.

The conference sessions (1A-1D, 2A-2E, 3A-3E and 4A-4D) take place over a full day and it is therefore possible to register for only one session per day. However, once at SATC, delegates are welcome to move between the sessions.

Registrations are done via the SATC website: [www.satc.org.za](http://www.satc.org.za)

Registrations for virtual delegates will open on 10 June. This is an in-person event and streaming will be limited to a maximum of three sessions a day.

## FEES AND PAYMENT

**Registration fees are payable in advance by:**

### ▪ DIRECT DEPOSIT

Direct deposits may be made into the following bank account and proof of payment sent to the SATC Secretariat (email: [satc.conference@gmail.com](mailto:satc.conference@gmail.com)). Please use the pro forma invoice number as reference so that the payment can be identified, and the correct delegate(s) credited:

<b>Bank</b>	<b>FNB</b>
<b>Branch and code</b>	<b>Hatfield 242-145</b>
<b>Account name</b>	<b>Annual Transportation Convention</b>
<b>Account No</b>	<b>54501151268</b>
<b>Swift code</b>	<b>FIRNZAJJ (for transfers from foreign countries)</b>

### ▪ PAYFAST

Upon completion of your registration, you will have the option to be directed to the secure Payfast (payment gateway) site to make a card payment for immediate settlement of delegate registration fees. This platform accepts all major currencies, and all billing conversions are done in original Rand (R) value.

### ▪ CASH PAYMENT AT THE CONFERENCE

If time is short, registration fees may be paid at the conference (IN SUCH CASES THE LATE REGISTRATION FEES WILL APPLY). **Please arrange with the SATC Secretariat prior to attending the conference.**

The late registration fee will apply for all payments received after 10 June 2023.

ID number is required for registration for all South African residents.

If you register as a STUDENT, you are required to mail a copy of your student card to the secretariat prior to the event. You will also be requested to present your student card at the registration desk.

<b>Fees are per day. Fees include 15% VAT (please supply your company VAT number on registration form)</b>	<b>Early bird fee: (For registrations AND PAYMENT up to 10 Jun)</b>	<b>Late fee (For registrations AND PAYMENT from 11 Jun)</b>
<b>Student</b>	<b>R1 000</b>	<b>R1 200</b>
<b>Presenter (on day of presentation)</b>	<b>R1 500</b>	<b>R2 100</b>
<b>Young Professional (under35)</b>	<b>R2 000</b>	<b>R2 400</b>
<b>Delegate</b>	<b>R2 500</b>	<b>R3 200</b>

**Virtual registrations and fees will be made available after 10 June.**

## THE REGISTRATION FEE FOR THE CONFERENCE SESSIONS AND WORKSHOPS, INCLUDE:

- Attendance on the registered day(s).
- Lunch and refreshments on the day(s) of attendance.
- Attendance of the cocktail party on Monday, 10 July. (Please indicate on the registration form).
- Transport between the appointed hotels and the conference venue. (Please indicate on the registration form).
- A briefbag containing the conference documentation including the written papers (received in time for printing) on Memory Stick and a Programme Handbook containing the Final Programme and Abstracts of the papers presented.

## CONFIRMATION

Once your registration is complete, you will receive a pro-forma invoice via e-mail. Therefore, please ensure that your current e-mail address is given on the registration form.

## CANCELLATION

Notification of cancellation received, in writing, prior to or on Friday, 7 July 2023 will be subject to a 25% handling fee and processed after the conference. Delegates may be substituted at any stage. No refunds will be made on cancellations received after 7 July 2023.

DELEGATES ARE REMINDED THAT A COMPLETED REGISTRATION FORM IS TAKEN AS A FIRM COMMITMENT AND IN THE EVENT OF NON-ATTENDANCE, THE DELEGATE WILL BE HELD RESPONSIBLE FOR PAYMENT OF THE FULL ACCOUNT.

**Please send proof of payment, using the pro forma invoice number as reference.**

(A Tax invoice is issued after payment reflects on our bank statement)

## CPD ACCREDITATION

The conference is SAICE accredited and professional engineers will earn one credit per day of attendance. No attendance certificates will be issued. **In order to apply for credits, professional engineers must sign the special registration sheets (not the SATC conference registration sheets) at the conference registration desk on each day of attendance.**

Only delegates attending the conference in person will earn CPD points.

## OPENING ADDRESS

**Hon. Sindisiwe Lydia Chikunga**

**MINISTER OF TRANSPORT**



## PLENARY SPEAKERS

**MONDAY**

**Ms Karla González Carvajal**

**World Bank**



**Karla González Carvajal** is a specialist in the subject of negotiation and alternative dispute resolution. She obtained her MBA with an emphasis on Marketing at the University of San Diego in California and holds a degree in Law from the University of Costa Rica.

Her work over the last decade has provided her with extensive experience in the area of public service. She has specialized in Alternative Conflict Resolution Methods and is currently a member of the Centro Internacional de Arbitraje y Conciliación Comercial (International Center for Arbitration and Commercial Conciliation). She was a member of Road Safety Committee, which is led by the Fundación Internacional de Automovilismo (International Automobile Foundation). As Minister of Public Works and Transportation in Costa Rica she achieved a fourfold increase in the investment of public works, the resumption of construction at the national airport, which was stalled due to conflicts, the transformation of the driver's license system, the promotion of a new traffic law and the inclusion of road safety components in the design of road infrastructure. She is currently the World Bank's Practice Manager for Transport in Europe. Karla is also leading the Gender Task Force for the World Bank's Transport Global Practice, working to operationalize the gender agenda in the transport sector.

## **TUESDAY**

**Prof André Roux**

**STELLENBOSCH UNIVERSITY BUSINESS SCHOOL**



**Prof André Roux** was the Director of the Institute for Futures Research (IFR) at the University of Stellenbosch from 1996 to August 2015. André is now in the full-time employ of the US Business School, where he lectures on economics and is also the programme head for the School's postgraduate programmes in Futures Studies. He also teaches on various executive education programmes in South Africa and, from time to time, in Australia, Mauritius, Namibia, Swaziland, Tanzania, Ghana and Nigeria. André is a visiting professor at Vlerick Business School (Belgium) and at the Beijing Business School (China). He is also a guest lecturer on post-graduate programmes at the School of Public Management (Stell) and the Post-graduate diploma in Managing HIV and AIDS in the workplace. André holds a PhD in Economics and is responsible for more than 150 popular publications; 1 book (14th edition); 6 chapters in scientific books; 10 publications in scientific journals; 25 papers presented at domestic and international conferences. He is a regular guest on radio and television programmes. He has supervised 6 PhD theses and more than 150 postgraduate students. Awarded prize for best lecturer at Business School (2016-2018).

## **WEDNESDAY**

**Dr Kevin Trenberth**

**NATIONAL CENTRE FOR ATMOSPHERIC RESEARCH, NEW ZEALAND**



**Dr Kevin Trenberth** is a Distinguished Scholar at the National Centre for Atmospheric Research and an honorary faculty member at the University of Auckland, New Zealand. From New Zealand, he obtained his Sc. D. in meteorology in 1972

from Massachusetts Institute of Technology. He was a lead author of the 1995, 2001 and 2007 Scientific Assessment of Climate Change reports from the Intergovernmental Panel on Climate Change (IPCC) and shared the 2007 Nobel Peace Prize which went to the IPCC. He played a major role in the World Climate Research Programme (WCRP) from 1985 through 2020. He is a fellow of the American Meteorological Society, the American Association for Advancement of Science, the American Geophysical Union, and an honorary fellow of the Royal Society of New Zealand. He is widely published and cited, and has a new book published in 2022.

## KEYNOTE SPEAKER

**THURSDAY**

**Ms Logashri Sewnarain**  
**SMEC South Africa, CEO**



**Logashri Sewnarain** is a senior level Professional Engineer and Project and Construction Management Executive with over 25 years' experience in the management of high-level infrastructure projects in South Africa and abroad. Logashri is the first female to hold the titles of CEO and Functional General Manager of Roads and Highways within SMEC South Africa and was the first female in the positions of President of the South African Road Federation and Regional Manager for SANRAL. She is an Executive Board Member of SMEC South Africa and SMEC Namibia, as well as a Board Member of SOILCO and LDLC Properties. Logashri is a Council Member of the South African Roads Federation and previously served as a member of PIARC - World Road Association's Technical Committee, during which she was responsible for the performance of road administrations. She is also a Fellow with the Association of Arbitrators having completed the Certificate in Arbitration and the Fellowship in Arbitration.



## SESSIONS

### MONDAY, 10 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in their respective venues</b>
<b>OPENING SESSION</b>	
08:30 – 08:50	<b>PERFORMANCE BY SOUL BLEND, INCLUDING THE NATIONAL ANTHEM OF SA</b>
08:50 – 09:00	<b>INTRODUCTION – Dr Mathetha Mokonyama, Conference Chairman</b>
09:00 – 09:10	<b>WELCOME – Mr Philip Hendricks, Chairman, ATC Board</b>
09:10 – 09:40	<b>OPENING ADDRESS - Hon Sindisiwe Lydia Chikunga, Minister of Transport</b>
09:40 – 10:25	<b>PLENARY ADDRESS – Ms Karla Gonzalez Carvajal, World Bank</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>

### **DELEGATES BREAK INTO PARALLEL SESSIONS AFTER THE REFRESHMENTS BREAK**

(Detailed programme following on next page)

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<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<p><b>SESSION 1A – INFRASTRUCTURE</b></p> <p><b>THIS SESSION IS SPONSORED BY ROYAL MNDawe HOLDINGS</b></p>	
<b>SESSION CHAIR: Dr Emile Horak, Kubu Consultancy</b>	
11:00 – 11:30	CONDITION OF SOUTH AFRICA'S TRANSPORT FIXED INFRASTRUCTURE – THE FOURTH JOURNEY ALONG THIS ROAD – <b>K Wall</b> , University of Pretoria and F Slabbert, Sciendum Academy
11:30 – 12:00	SAVING OUR SURFACED ROAD NETWORK THROUGH LABOUR INTENSIVE WATER-PROOFING AND RESTORATION – <b>GJ Jordaan</b> , Jordaan Professional Services/ University of Pretoria and WJ vdM Steyn, University of Pretoria
12:00 – 12:30	MECHANISTIC RESPONSE OF CONVENTIONAL VS PERPETUAL FLEXIBLE PAVEMENTS UNDER SIMILAR LOADING CONDITION: A 3-D FINITE ELEMENT ANALYSIS – <b>L Sogayise</b> , I Aivinhenyo and S Mfengu, University of the Witwatersrand
12:30 – 13:00	DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 1 THE SWARTKLIP AND LAMBERT'S BAY EXPERIMENTS – <b>F Netterberg</b> , Pavement Material & Geotechnical Specialist
14:30 – 15:00	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 2 THE LÜDERITZ EXPERIMENT - <b>F Netterberg</b> , Pavement Materials & Geotechnical Specialist
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	GREENING OUR ROAD CONSTRUCTION – VIEWS FROM THE TRANSPORTATION INDUSTRY IN SOUTH AFRICA – <b>M Heyns</b> , M Sinclair and R Combrinck, Stellenbosch University
16:00 – 16:30	ADVANCING ASPHALT MIXTURES IN SOUTH AFRICA: UNCOVERING SUITABLE NON-CONVENTIONAL MATERIALS AND DESIGN METHODOLOGIES/PROCEDURE - <b>R Lutchminarian</b> and MMH Mostafa, University of KwaZulu-Natal
16:30 – 17:00	DISCUSSION
<b>17:00 – 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## MONDAY, 10 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>SESSION 1B – TREASURY SESSION – PUBLIC TRANSPORT AND SPATIAL TRANSFORMATION</b>	
<b>SESSION CHAIR: Mr Madumetja Moselakgomo, University of Johannesburg</b>	
11:00 – 11:30	LAUNCH OF THE PUBLIC TRANSPORT CAPACITY BUILDING PEER LEARNING PROGRAMME FOR CITIES IN PARTNERSHIP WITH THE SOUTH AFRICAN CITIES NETWORK- <b>H Gaibe</b> , National Treasury
11:30 – 12:00	CSP SPATIAL TRANSFORMATION PROGRAMME: KEY FINDINGS – <b>M Rathogwa</b> , CSIR
12:00 – 12:30	SPATIAL TRANSFORMATION IN SOUTH AFRICA: A PIPE DREAM? - <b>A Todes</b> , University of Witwatersrand
12:30 – 13:00	FOLLOW UP DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	LAND MATTERS: THE ROAD AHEAD - <b>T Ngcukaitobi</b> , Senior Counsel
14:30 – 15:00	FOLLOW UP DISCUSSION
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	STATE OF CITIES FINANCES – CAN CITIES AFFORD SPATIAL TRANSFORMATION? - <b>N Hlatshwayo</b> , SA Cities Network
16:00 – 16:30	ECONOMY ON YOUR DOORSTEP – UNLOCKING LAND FOR ECONOMIC OPPORTUNITIES - <b>A Cawe</b> , Xesibe Holdings
16:30 – 17:00	FOLLOW UP DISCUSSION
<b>17:00 – 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

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<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<b>SESSION 1C – TRAFFIC ENGINEERING</b>	
<b>SESSION CHAIR: Mr Justice Chauke, SANRAL</b>	
11:00 – 11:30	GUIDELINES FOR THE PROVISION OF BYPASS ROADS AND THROUGH-WAYS AT CITIES AND TOWNS - <b>PA Pienaar</b> , Mintirho Engineering Services, M Mokonyama, CSIR, DK Das, University of KwaZulu Natal, WJ Pienaar, Stellenbosch University, HJ Stander, SC van As and A Robinson, SANRAL
11:30 – 12:00	UTILIZING UAVS AND AI SOFTWARE FOR DATA COLLECTION AT ROUNDABOUTS - <b>I van Tonder</b> and JT Arries, Stellenbosch University, JC Krogscheepers, Innovative Transport Solutions Global and SC van As, SC van As Traffic Engineer CC and MM Bruwer, Stellenbosch University
12:00 – 12:30	ACCURACY OF VIDEO ANALYTICS AND ON-BOARD GPS DEVICES FOR DATA COLLECTION AT ROUNDABOUTS - <b>JT Arries</b> and I van Tonder, Stellenbosch University, JC Krogscheepers, Innovative Transport Solutions Global, SC van As, SC van As Traffic Engineer CC and MM Bruwer, Stellenbosch University
12:30 – 13:00	OPERATIONAL CONCEPT FOR CONNECTED AND AUTONOMOUS VEHICLES IN AN URBAN ENVIRONMENT - <b>A van Straten</b> and SJ Andersen, Stellenbosch University
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 15:00	STATE OF TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS IN SOUTH AFRICA – <b>J Coetzee</b> , Innovative Transport Solutions
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	THE NEED FOR SOUTH AFRICA TO ADOPT STANDARD SIGNAGE AND SYMBOLS FOR LOW AND ZERO EMISSION VEHICLES (LZEVs) - <b>L Monyatsi</b> , Road Traffic Management Corporation, and University of Cape Town Centre for Transport Studies
16:00 – 16:30	HOW STANDARD (AND VALID) ARE SOUTH AFRICAN PARKING STANDARDS? - <b>MM Bruwer</b> and M Geldenhuys, Stellenbosch University
16:30 – 17:00	PERFORMANCE ASSESSMENT OF SIGNALISED INTERSECTION USING UAV VIDEOGRAPHY – A CASE STUDY OF THE JORISSEN-BERTHA STREET INTERSECTION IN JOHANNESBURG - <b>I Aivinhenyo</b> , I Mokgalaka and T Monareng, University of the Witwatersrand,
<b>17:00 - 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

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<b>08:30 - 10:30</b>	<b>OPENING SESSION</b>
<b>10:30 - 11:00</b>	<b>REFRESHMENTS</b>
<p><b>SESSION 1D – CAPACITY BUILDING/ TRANSPORT FOR RURAL DEVELOPMENT</b>  <b>And</b>  <b>THE INTERNATIONAL ROAD FEDERATION</b>  <b>(Combined session)</b></p>	
<b>SESSION CHAIR: Prof James Chakwizira, University of Venda</b>	
11:00 - 11:30	PLANNING FOR SUSTAINABILITY: THE GREEN TRANSPORT POLICY – <b>T Tenza</b> , Department of Transport
11:30 - 12:00	SOCIAL MEDIA LESSONS RELATED TO THE DEVELOPMENT OF LONG-DISTANCE PUBLIC TRANSIT IN THE UNDERDEVELOPED COMMUNITIES - <b>DM Serumula</b> and M Vanderschuren, University of Cape Town
12:00 - 12:30	GENDER IMPACTS ON RURAL CYCLING DECISIONS: A CASE STUDY OF BUGESERA DISTRICT, RWANDA - <b>JCB Munyaka</b> , École Polytechnique Fédérale de Lausanne, SWITZERLAND, J Chenal, École Polytechnique Fédérale de Lausanne, SWITZERLAND and Université Mohammed VI Polytechnique, MOROCCO, AG Sebarenzi ,University of Rwanda, R Mranji, École Polytechnique Fédérale de Lausanne, SWITZERLAND and Université Mohammed VI Polytechnique, MOROCCO, J Malonza, University of Rwanda, S Ndam, and AA Konou, École Polytechnique Fédérale de Lausanne, SWITZERLAND
12:30 - 13:00	NEW SMART COASTAL AFRICAN CITY: ROADMAP FOR SUSTAINABLE DEVELOPMENT FOR THE EASTERN SEABOARD REGION – <b>N Vimba</b> , MISA
<b>13:00 - 14:00</b>	<b>LUNCH</b>
14:00 - 14:30	RURAL TRANSPORT AND DEVELOPMENT: A CASE OF THE ALBERTINE REGION IN UGANDA - <b>M Mutesi</b> , Centre Safe Way Right Way (SWRW), UGANDA
14:30 - 15:00	MOST DANGEROUS WAYS TO SCHOOL: A CASE OF PEDDIE IN THE EASTERN CAPE - <b>MM Muthige</b> , Independent Researcher
<b>15:00 - 15:30</b>	<b>REFRESHMENTS</b>
15:30 - 17:00	THE INTERNATIONAL ROAD FEDERATION
<b>17:00 - 18:30</b>	<b>COCKTAIL PARTY</b>
<b>18:30</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	Briefing for presenters and chairs in the respective venues
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) – Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	Plenary breaks up into parallel sessions
<b>SESSION 2A – INFRASTRUCTURE</b>  <b>THIS SESSION IS SPONSORED BY ROYAL MNDawe HOLDINGS</b>	
<b>SESSION CHAIR: Dr Lubinda Walubita</b>	
09:30 – 10:00	TECHNOLOGY SOLUTIONS FOR STRATEGIC BRIDGE INSPECTIONS IN SOUTH AFRICA - <b>L Kemp</b> , CSIR/ University of Pretoria, R Matchett, Zutari, MP Roux, CSIR and L de Klerk, Zutari
10:00 – 10:30	INNOVATIVE BRIDGE ASSESSMENT FOR DEVELOPING COUNTRIES - <b>PF van der Spuy</b> , Zutari and Stellenbosch University
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	IDENTIFYING ABNORMAL VEHICLE SUBCLASSES FROM WIM DATA FOR THE STRUCTURAL DESIGN OF HIGHWAY BRIDGES IN SOUTH AFRICA - <b>J van Rooyen</b> and PF van der Spuy, Zutari
11:30 – 12:00	INNOVATIVE ROAD DESIGN WITH BIM TECHNOLOGIES - DIGITALLY TRANSFORMING THE WAY WE CREATE ROAD INFRASTRUCTURE - <b>S Yunos</b> , Baker Baynes and D Allopi, Durban University of Technology
12:00 – 12:30	TOWARDS GREENER TRANSPORTATION INFRASTRUCTURE THROUGH INNOVATIVE DIGITAL TWINS ASSESSMENT; STUDY CASE IN UZBEKISTAN - <b>N Miravalls and H Pley-Leclercq</b> , Oris FRANCE
12:30 – 13:00	DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 15:00	WORKSHOP: PORTABLE WIM TECHNOLOGY – THE TEXAS EXPERIENCE – <b>L Walubita</b>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	THE USE OF SEAWATER IN ROAD CONSTRUCTION: 3; A QUICK GUIDE TO AN ACCELERATED CONSTRUCTION METHOD - <b>F Netterberg</b> , Pavement Material & Geotechnical Specialist
16:00 – 16:30	To be confirmed
16:30 – 17:00	DISCUSSION
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2B – PUBLIC TRANSPORT</b>	
<b>SESSION CHAIR: Prof Roger Behrens, University of Cape Town</b>	
09:30 – 10:00	MINIBUS TAXI IMPROVEMENT INITIATIVES IN THE WESTERN CAPE - D Ribbonaar, <b>R Collins</b> , G Martin, B MacMahon, G M Johnson and L Rautenbach, Western Cape Mobility Department, P Grey, M Moody and Z Ahmed, Pegasys Strategy and Development
10:00 – 10:30	BLUE DOT TAXI SYSTEM IN THE WESTERN CAPE - SYSTEMS AND TECHNOLOGY OVERVIEW - D Ribbonaar, <b>G Martin and N Hendricks</b> , Western Cape Mobility Department, Z Jackpersad, P Grey and M Weber, Pegasys Strategy and Development
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	NEW MINIBUS-TAXI INITIATIVES IN THE CITY OF CAPE TOWN - <b>R Springleer</b> , City of Cape Town, A Mulla, M Moody, K Kwinana and C Paulsen, Pegasys Strategy and Development
11:30 – 12:00	CHARACTERIZATION OF THE MINIBUS-TAXI NETWORK IN THE CITY OF JOHANNESBURG - <b>DC Madumo</b> , CSIR, N Khoza and H Sekwaila, City of Johannesburg
12:00 – 12:30	POTENTIAL TO REGULARISING THE MINIBUS-TAXI INDUSTRY: A POSITION PAPER - <b>R Springleer</b> , City of Cape Town, A Mulla and M Magwaza, Pegasys Strategy and Development
12:30 – 13:00	INFORMAL PUBLIC TRANSPORT PASSENGER SATISFACTION IN SELECTED WEST AND SOUTHERN AFRICAN CITIES - <b>R Behrens</b> , University of Cape Town, T Durant, M Grant Monney, K Osei, J Romero de Tejada, H Schalekamp and A Tarawally
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	BEST-WORST SCALING APPROACH TO MEASURE PUBLIC TRANSPORT USER QUALITY PERCEPTIONS AND PREFERENCES IN CAPE TOWN - <b>SP Walaza</b> , City of Cape Town, P Onderwater, Hatch Africa and M Zuidgeest, University of Cape Town
14:30 – 15:00	THE ECONOMIC FACILITATING ROLE OF PASSENGER TRANSPORT IN SOUTH AFRICA - <b>M Knipe</b> and SC Krygsman, Stellenbosch University
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	TRAVEL TIME RELIABILITY ASSESSMENT OF PUBLIC TRANSPORT – A CASE STUDY OF THE JOHANNESBURG BUS RAPID TRANSIT (BRT) CORRIDORS - <b>J Mandlate</b> , M Makwakwa and I Aivinyhenyo, University of the Witwatersrand
16:00 – 16:30	THE IMPACT HUMAN-CENTRIC PUBLIC TRANSPORT DESIGN PRINCIPLES ON THE DESIRABILITY AND OPERATIONAL SUCCESS OF PUBLIC TRANSPORT IN GAUTENG PROVINCE - <b>R Carstens</b> , SANRAL
16:30 – 17:00	DISCUSSION
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof Andrè Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2C – TRAFFIC MANAGEMENT, SAFETY AND SECURITY</b>	
<b>SESSION CHAIR: Prof Marianne Vanderschuren, University of Cape Town</b>	
09:30 – 10:00	IMPLEMENTATION OF THE SAFE SYSTEM APPROACH IN SOUTH AFRICA: OVERVIEW OF THE LIMPOPO ROAD SAFETY PROGRAMME - <b>K Venter</b> , CSIR, J James, F Ahmed, N Greyling, S Mavuso, C Malan, M Romijn, C Harding and R Baker
10:00 – 10:30	ROAD FATALITIES: DID COVID-19 IMPACT TREND IN CAPE TOWN? - <b>M Vanderschuren</b> , University of Cape Town
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	'CYCLING IN THE 15-MINUTE CITY: STRATEGIES TO REDEFINE OUR URBAN ENVIRONMENTS, AND MOBILITY WITHIN IT' - <b>AM Wheeldon</b> , Bicycle Cities/ Carfree Cities Alliance
11:30 – 13:00	MINI WORKSHOP ON MICRO MOBILITY – Facilitator: <b>M Vanderschuren</b> REGULATION OF E-SCOOTERS IN SOUTH-AFRICA - <b>SJ de Villiers</b> and M Sinclair, Stellenbosch University FACILITATED DISCUSSION BY ALL DELEGATES
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	THE EFFECT OF INFRASTRUCTURE AND EDUCATIONAL ROAD SAFETY INTERVENTIONS IN KHAYELITSHA, CAPE TOWN - M Vanderschuren, University of Cape Town and <b>P Muchaka</b> , ChildSafe South Africa
14:30 – 15:00	TOWARDS A DEDICATED TRANSPORT SAFETY RESEARCH FACILITY FOR SOUTH AFRICA - B Marole, <b>K Venter</b> , I Sallie, K Muronga, L Kemp, M Kemp, V de Franca, P Binda, M Dube, T Matsaung, K Bosilong, R Malope, T Mogae, P Mashaba, B Kwange, L Kwange, C Maraga and M Feikie
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	HIGH PERFORMANCE PAVEMENT MARKINGS ENHANCING HUMAN, CAMERA AND LIDAR DETECTION - <b>V Tshabangu</b> , 3M South Africa and R Nuyttens, 3M Belgium
16:00 – 16:30	RESPONDING TO ROAD SAFETY CHALLENGES – PROPOSED PEDESTRIAN SAFETY MEASURES FOR DURBAN CBD - <b>T Mokoni</b> , eThekweni Municipality and <b>L Monyatsi</b> , Road Traffic Management Corporation, and University of Cape Town Centre for Transport Studies
16:30 – 17:00	STUDY ON THE INFLUENCE OF MOUNTAIN LANDSCAPE FACTORS ON THE DRIVING STABILITY OF DRIVERS BASED ON VIRTUAL REALITY SIMULATION - H Li, M Zhang, Q Kou, <b>H Jiang</b> , L Yu and J Yang, Hubei University of Technology, CHINA
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>



## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2D – FREIGHT AND LOGISTICS</b>	
<b>SESSION CHAIR: Dr Paul Nordengen, Heavy Vehicle Transport Technology Africa</b>	
09:30 – 10:00	CLIMATE CHANGE MITIGATION IS THE SOUTH AFRICAN TRANSPORT SECTOR READY FOR CHANGE - <b>LA Grimett</b> , Moses Kotane Institute
10:00 – 10:30	DECARBONISATION OF ROAD FREIGHT AND THE PATH TO NET ZERO – <b>AK Kamdar</b> , KDG Logistics
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	APPLICATION OF ARTIFICIAL INTELLIGENCE TO OVERLOAD CONTROL - A de Coning and <b>AJ Hoffman</b> , North-West University
11:30 – 12:00	IoT-ENABLED SUPPLY CHAIN MANAGEMENT AND LOGISTICS - <b>D Chauke</b> , G Gama, R Sebetoa, L Marimuthu, and T Mavhona, CSIR
12:00 – 12:30	EFFECT OF THE ADOPTION OF TECHNOLOGY INNOVATIONS IN THE AIR CARGO LOGISTICS INDUSTRY IN SOUTH AFRICA - <b>AJ Adenigbo</b> , J Mageto and R Luke, University of Johannesburg
12:30 – 13:00	DISCUSSION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>SESSION CHAIR: Prof Alex Visser, University of Pretoria</b>	
14:00 – 15:00	STUDENT ESSAY PRESENTATIONS 1 <b>FN Paulus</b> , University of Namibia 2 <b>DM Temfundo</b> , University of Namibia 3 <b>G Ankunda</b> , University of Pretoria 4 <b>DC Grant</b> , Stellenbosch University 5 <b>E Kakoma</b> , Stellenbosch University 6 <b>C Chen</b> , Henan Polytechnic University, China 7 <b>T Liu</b> , Henan Polytechnic University, China 8 <b>S Mangwaya</b> , University of Venda 9 <b>Y He</b> , Chang'An University, China 10 <b>Y Li</b> , Chang'An University, China
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	STUDENT ESSAY PRESENTATIONS CONTINUED
<b>END OF SESSION (Delegates may join other sessions)</b>	

## TUESDAY, 11 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Prof André Roux, Stellenbosch University</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 2E – RAIL</b>	
<b>SESSION CHAIR: Mr Jaap van der Merwe</b>	
09:30 – 10:00	THEME: RAILWAYS IN DESERT CONDITIONS APPLICATION OF THE LIFE CYCLE COST ANALYSIS TECHNIQUE TO EXPLORE DESIGN AND MAINTENANCE SOLUTIONS FOR RAILWAY LINES IN WINDBLOWN SANDY DESERTS: THE AUS-LÜDERITZ RAILWAY LINE CASE STUDY - J Hamalwa, PT Johannes and <b>R Ambunda</b> , University of Namibia
10:00 – 10:30	DERAILMENT CONSIDERATIONS FOR BALLASTLESS TRACK IN DESERT AREAS
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 13:00	THEME: RAIL SAFETY ASPECTS INVITED PRESENTATIONS BY THE RAILWAY SAFETY REGULATOR AND OTHER ROLE PLAYERS
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 15:00	THEME: HIGH SPEED RAIL IN SOUTH AFRICA INVITED PRESENTATIONS BY THE DEPARTMENT OF TRANSPORT AND OTHER ROLE PLAYERS
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 17:00	THEME: HIGH SPEED RAIL IN SOUTH AFRICA INVITED PRESENTATIONS BY THE DEPARTMENT OF TRANSPORT, OTHER ROLE PLAYERS AND PANEL SESSION
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3A – ENGINEERING FOR SAFE SYSTEMS FORUM</b>	
<b>SESSION CHAIR: Dr Karien Venter, CSIR</b>	
09:30 – 10:00	INTRODUCTION AND BACKGROUND TO THE SARF ESSF 2023 SESSION – <b>B Jonsson and K Labuschagne</b> , SA Road Federation
10:00 – 10:30	PRACTICAL APPLICATION OF THE SARSAM 2022 (TRH 29) GUIDELINE - W Hepkema and M Groenewald, Zutari
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	ROAD SAFETY ASSESSMENT IN LIMPOPO PROVINCE ROAD SAFETY ASSESSMENT IN BOTSWANA
11:30 – 12:00	ROAD RESTRAINT SYSTEMS FOR VRU'S – <b>C Barnard and K Venter</b> , CSIR
12:00 – 12:30	UPDATE ON SARRSM 2022 (TMH 24) GUIDELINE – <b>L de V Roodt</b> , Roodt Transport Safety
12:30 – 13:00	DISCUSSION AND INDUSTRY INPUTS
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	A DELVE INTO THE RAPSA PROCESS ASSOCIATED WITH (PRE-) DRAFT TMH24 – <b>T Thomas</b> SANRAL
14:30 – 15:00	ROAD RESTRAINT SYSTEMS (RRS): NOT BUSINESS AS USUAL – <b>WA Van Gruting</b> , SANRAL
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	CASE STUDY: N10 PATERSON TO OLIFANTSKOP PASS - <b>ML Msutwana</b> , SANRAL
16:00 – 16:30	SEGMENTAL ANALYSIS (INTERACTIVE EXCEL-BASED TUTORIAL WITH INDIVIDUAL DELEGATES – ONE SEGMENT PER DELEGATE) - <b>ML Msutwana</b> , SANRAL
16:30 – 17:00	DISCUSSION AND CLOSURE - <b>B Jonsson and K Labuschagne</b>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 - 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3B – SMART AND e-MOBILITY</b>  <b>THIS SESSION IS SPONSORED BY EGIS</b>	
<b>SESSION CHAIR: Dr Megan Bruwer, Stellenbosch University</b>	
09:30 – 10:00	THE INTEGRATION OF SMART MOBILITY SYSTEMS ON THE REVISED TAXI RECAPITALIZATION PROGRAM AS A STRATEGY TO MODERNIZE THE TAXI INDUSTRY - <b>JK Ditshego</b> , Vaal University of Technology and M Mokonyama, CSIR
10:00 – 10:30	THE FUTURE OF AUTOMATED FARE COLLECTION SYSTEMS: A PERSPECTIVE FROM THE ETHEKWINI MUNICIPALITY - <b>A Aucamp</b> , eThekweni Transport Authority, S Govender and M Pearton, eThekweni Municipality
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	MICROMOBILITY – TESTING SUITABILITY THROUGH FCD TO IMPROVE OVERALL MOBILITY - <b>LJ van Wyk</b> , SJ Andersen and MM Bruwer, Stellenbosch University
11:30 – 12:00	DECARBONISING SOUTH AFRICA'S PARATRANSIT WITH HYDROGEN - A SIMULATED CASE STUDY - <b>CJ Abraham</b> , Stellenbosch University, T Zenner, Reutlingen University GERMANY, MJ Booyesen, and AJ Rix, University of Stellenbosch
12:00 – 12:30	ENERGY AND EMISSIONS MODELLING IN ETHIOPIA'S TRANSPORT SECTOR - <b>O Nnene</b> and M Zuidgeest, University of Cape Town, D Senshaw, B Oberholzer and S Grafakos, Global Green Growth Institute REPUBLIC OF KOREA
12:30 – 13:00	CHALLENGES FACING SOUTH AFRICAN ROAD AUTHORITIES IN THE TRANSITION TO NEW ENERGY VEHICLE TECHNOLOGY - <b>PA Pienaar</b> , Mintirho Engineering Services, M Zuidgeest, University of Cape Town and A Robinson, SANRAL
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	ESTIMATION OF DISCRETE CHOICE MODELS FOR ROUTE CHOICE FROM DATA COLLECTED USING THE RAPP-UP SMARTPHONE APPLICATION - <b>G Hayes</b> and C Venter, University of Pretoria
14:30 – 15:00	USING TRACKING DATA AND AN ELECTRO-MOBILITY SIMULATOR TO ESTABLISH THE ENERGY REQUIREMENTS OF ELECTRIC MINIBUS TAXIS IN TSHWANE - <b>S Abdelgadir</b> , University of Pretoria, J Giliomee, Stellenbosch University, C Venter, University of Pretoria and MJ Booyesen, Stellenbosch University
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 15:45	PRACTICAL EXAMPLES OF SMART MOBILITY PROJECTS RELEVANT TO THE SOUTH AFRICAN ENVIRONMENT, SPONSOR PRESENTATION – <b>L Bouchacourt</b> , EGIS
15:45 – 17:00	DISCUSSION SESSION: PARATRANSIT FOR THE FUTURE: INTEGRATING INFORMAL PUBLIC TRANSPORTATION SERVICES THROUGH TECH – Panel discussion
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3C – 10<sup>TH</sup> CHINA AFRICA TRANSPORT CO-OPERATION FORUM AND / HIGH SPEED TRAINS</b>	
<b>09:30 – 10:00</b>	THE LATEST FRAMEWORK WITH THE INNOVATIVE FRAMEWORK OF THE CHINA-AFRICA TRANSPORT STRATEGY RESEARCH INSTITUTE (CATSRI) UNDER UNIVERSITY OF PRETORIA (UP), CHANG’AN UNIVERSITY (CAU) AND SOUTH AFRICA-CHINA TRANSPORT CO-OPERATION CENTER(SACTCC)
<b>10:00 – 10:30</b>	PROGRESS ON UN-CHINA TRANSPORT SUSTAINABLE AND INNOVATIVE TECHNOLOGY CENTRE
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	CHINA-AFRICA COOPERATION IN THE TRANSPORT SECTOR UNDER THE BRI - <b>Y He</b> , Zhejiang Normal University CHINA
<b>11:30 – 12:00</b>	SIMULATION ON THE THERMAL CONTRACTION COORDINATION BEHAVIOR BETWEEN ASPHALT MIXTURE OVERLAY AND GRADED GRAVEL BASE LAYER - <b>T Wan</b> , H Wang, P Zhang, X Yang and Y Chen, Chang’an University CHINA
<b>12:00 – 12:30</b>	AN EXPOSE OF THE STATE OF CYCLING IN SOUTH AFRICAN CITIES: INSIGHTS FROM THE CITY OF JOHANNESBURG - <b>B Risimati</b> , University of Venda, T Gumbo and T Moyo, University of Johannesburg and E Ingwani, University of Venda
<b>12:30 – 13:00</b>	WIN-WIN ACHIEVEMENTS ON TRANSPORT AND INFRASTRUCTURE DEVELOPMENT HAND BY HAND ON CHINA-AFRICA COLLABORATIONS - <b>Y Wang</b> , SACTCC
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>MAGLEV AND HIGH SPEED TRAINS</b>	
<b>14:00 – 14:30</b>	To be confirmed
<b>14:30 – 15:00</b>	
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	
<b>16:00 – 16:30</b>	
<b>16:30 – 17:00</b>	
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) - Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3D – MARITIME</b>	
<b>09:30 – 10:00</b>	THE MARITIME INDUSTRY REGULATED FOR SUSTAINABILITY – AN INDUSTRY THAT GROWS, AN INDUSTRY THAT CONTRIBUTES TO THE ECONOMY, AN INDUSTRY THAT OPERATES RESPONSIBLY, BUT MORE SO AN INDUSTRY THAT COMPLIES TO B-BBEE – <b>K Selokane</b> , Heron Marine
<b>10:00 – 10:30</b>	SOUTH AFRICAN SHIP REGISTER PROMOTION STRATEGY – <b>S Bhengu and L Mudau</b> , South African Maritime Safety Authority
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 11:30</b>	MARITIME GAME CHANGERS IN SOUTH AFRICA- <b>K Ngubane</b> , Mnambithi Group
<b>11:30 – 12:00</b>	THE PORT INFRASTRUCTURE INVESTMENT IN SOUTH AFRICA - <b>S Mdlalose</b> , Transnet
<b>12:00 – 12:30</b>	THE IMPLEMENTATION OF TRADE SINGLE WINDOW SYSTEM: CASE OF KENYA – <b>M Issa</b> , Kenya Trade Network Agency
<b>12:30 – 13:00</b>	UNDERSTANDING THE PLIGHT AND CHALLENGES FACING SOUTH AFRICAN SEAFARERS - <b>L Grimett</b> , Moses Kotane Institute
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	BEST PRACTICES FOR ABANDONED, LOST OR OTHERWISE DISCARDED FISHING GEAR (ALDFG) IN AFRICA - <b>D Marlin</b> , Sustainable Seas Trust Africa
<b>14:30 – 15:00</b>	THE ECONOMIC IMPACT OF OPERATIONAL INEFFICIENCIES IN SA PORTS AND THE ROLE OF THE PORTS REGULATOR - <b>N Nkowane</b> , Ports Regulator
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 16:00</b>	TRANSITIONING TO MARITIME DECARBONISATION
<b>16:00 – 16:30</b>	MARKET BASED MEASUREMENTS IN SHIPPING
<b>16:30 – 17:00</b>	SUMMARY OF THE DAY
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## WEDNESDAY, 12 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>08:30 – 09:25</b>	<b>PLENARY ADDRESS (Diamond Auditorium) – Dr Kevin Trenberth, National Centre for Atmospheric Research, New Zealand</b>
<b>09:25 – 09:30</b>	<b>Plenary breaks up into parallel sessions</b>
<b>SESSION 3E – AVIATION WORKSHOP</b> <b>PLANNING &amp; DESIGN CONSIDERATIONS: THE AIRPORT CONTEXT</b>	
<b>SESSION CHAIR: Mr Jon Heeger, GWI Aviation</b>	
<b>09:30 – 10:00</b>	<b>CIVIL AVIATION ENVIRONMENT AND POLICY</b> <ul style="list-style-type: none"> <li>• The Chicago Convention of 1944 - World civil aviation structures – ICAO, IATA and national CAA's</li> <li>• Bilateral and Multi-lateral air service agreements and the Freedoms of the Air</li> <li>• African aviation - The Yammousoukro Decision and the 2018 Single African Air Transport market initiative – the role of the African Civil Aviation Commission (AFCAC)</li> <li>• Standards and Recommended Practices (SARPS: ICAO &amp; SACAA Compliance/Guidance material)</li> <li>• The CAA White Paper, 2017</li> <li>• Other industry bodies/structures</li> </ul>
<b>10:00 – 10:30</b>	<b>NEW TRENDS &amp; TECHNOLOGIES</b> <ul style="list-style-type: none"> <li>• ICAO 2050 zero carbon footprint targets and possible disruptive influences</li> <li>• New aircraft technologies</li> <li>• Drones- commercialization, e-commerce</li> </ul>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 13:00</b>	<b>AIRPORTS IN SA: GROWTH, POLICY AND STRATEGIES</b> <ul style="list-style-type: none"> <li>• The role and mission of ACSA as an SoE</li> <li>• Market development strategies &amp; influence ACSA and the other levels of government.</li> <li>• Are Aerotropoli appropriate for SA versus new Airport Urbanism and re-integration models</li> <li>• Current post-Covid traffic and cargo/freight trends</li> <li>• Commercialisation of new technologies – e-commerce and other opportunities</li> </ul>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>SESSION CHAIR: Dr Bridget Ssamula, ECSA</b>	
<b>14:00 – 15:00</b>	<b>NEW ERA AIRPORT PLANNING &amp; DESIGN</b> <ul style="list-style-type: none"> <li>• The Traffic Forecast – objectives and methodologies, markets and supply side-considerations; peak versus aggregate projections</li> <li>• Determination of critical design aircraft and land-use optimization</li> <li>• Wind, weather and 'usability'</li> <li>• Long-term planning of infrastructure – risk assessment</li> <li>• New passenger behaviour trends</li> <li>• Airside versus landside issues – integrated airports</li> </ul>
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>15:30 – 17:00</b>	<b>AIRPORT- INVESTMENT CONSIDERATIONS</b> <ul style="list-style-type: none"> <li>• Value management in optimizing life cycle spend at airports</li> <li>• Aeronautical versus non-aeronautical income</li> <li>• Optimizing land uses in airport precincts</li> </ul>
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## THURSDAY, 13 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>SESSION 4A – INTEGRATED PUBLIC TRANSPORT NETWORKS</b>	
<b>SESSION CHAIR: Mr Madumetja Moselakgomo, University of Johannesburg</b>	
08:30 – 09:00	A TOTAL SOCIAL COST APPROACH TO PUBLIC TRANSPORT PLANNING IN SOUTH AFRICA - <b>M Nkosi</b> , SMEC South Africa, M Zuidgeest, University of Cape Town, M Mokonyama, CSIR and R Hawthorne, Acacia Economics
09:00 – 09:30	FUNDING OPTIONS FOR IPTN INFRASTRUCTURE AND SERVICES - <b>N Matebese</b> , DBSA
09:30 – 10:00	PROPOSED METHODOLOGY OF OPTIMIZING THE SECONDARY PUBLIC TRANSPORT NETWORK OF THE CITY OF JOBURG - <b>M Rathogwa</b> and A Singano, CSIR
10:00 – 10:30	DISCUSSION
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	RUSTENBURG RAPID TRANSPORT: PROGRESS, CHALLENGES & INNOVATIONS ON THE IMPLEMENTATION OF THE IPTN - <b>O Moleele</b> , Rustenburg Local Municipality
11:30 – 12:00	INTEGRATION OF MIDI-BUSES INTO THE GAUTRAIN SERVICES - <b>L Mathebula</b> , Gautrain Management Agency
12:00 – 12:30	LESSONS LEARNED FROM EVALUATING OPTIONS USING MULTI-CRITERIA ANALYSIS IN TWO CORRIDORS WITHIN THE CITY OF JOHANNESBURG - <b>M Nkosi</b> and M Jablonski, SMEC South Africa and NC Duze, City of Johannesburg
12:30 – 13:00	FOLLOW-UP DISCUSSION: FORMALISING TAXI INDUSTRY PARTICIPATION IN THE IPTN - TRANSFORMATION VS INTEGRATION
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	NLTA AMENDMENT BILL: LEGAL ASPECTS OF THE NLTA - <b>L Mabece</b> , Bulumko Law Advisors
14:30 – 15:00	FOLLOW-UP DISCUSSION: LEGAL ASPECTS OF THE NLTA AND MULTI-MODALISM OF IPTN
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	WHAT HAPPENS WHEN THE 12-YEAR BUS RAPID TRANSIT CONTRACTS COME TO AN END? MANAGING THE TRANSITION FROM NEGOTIATED VEHICLE OPERATOR CONTRACTS TO COMPETITIVE BIDDING PROCESSES - <b>P Koch</b> , P Grey, M Moody, M Weber and A Macfarlane, Pegasys Strategy and Development and A Bulman, Urban EQ Consulting Engineers
16:00 – 16:30	FOLLOW-UP DISCUSSION: RISK MITIGATION DURING THE TRANSITIONING PERIOD
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>



## THURSDAY, 13 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	<b>Briefing for presenters and chairs in the respective venues</b>
<b>SESSION 4B – URBAN MOBILITY</b>	
<b>SESSION CHAIR: Dr Megan Bruwer, Stellenbosch University</b>	
08:30 – 09:00	POST-COVID TRAVEL BEHAVIOUR IS AS THE 'OLD-NORMAL' - <b>P Onderwater</b> , Hatch Africa
09:00 – 09:30	MEASURING THE IMPACT OF COVID-19 ON MOBILITY IN GAUTENG PROVINCE, SOUTH AFRICA - <b>B Marole</b> and F Asimwe, CSIR and T Vanner, Gauteng Department of Roads and Transport
09:30 – 10:00	POST-COVID SHIFTS IN BUS PASSENGER TRIP TIMING AND VEHICLE UTILISATION IN CAPE TOWN - <b>R Behrens</b> , University of Cape Town, M Bruwer, Stellenbosch University, N McLachlan, Organisation Development Africa, D Meyer and E Scholtz, Golden Arrow Bus Services
10:00 – 10:30	DISCUSSION SESSION: TRANSPORT IN THE AFTERMATH OF COVID-19
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	TOWARDS THE EMPOWERED COMMUTER: EXPLORING INFORMATION BEHAVIOUR OF INFORMAL PUBLIC TRANSPORT USERS - <b>C Venter</b> , I Fourie, L Mokoma and S Harvett, University of Pretoria, N Grant, WhereIsMyTransport UNITED KINGDOM, P Mukwaya, Makerere University UGANDA and L Ribet, WhereIsMyTransport UNITED KINGDOM
11:30 – 12:00	"I HAVE NO CHOICE" EXPLORING LATENT DEMAND IN LILONGWE, MALAWI - <b>T Kerzhner</b> , UC Berkeley USA, Z Chilumpha, W Jana and S Tukula, Concern-Worldwide MALAWI
12:00 – 12:30	RELATIONSHIPS BETWEEN RESIDENTIAL RELOCATION, TRAVEL BEHAVIOUR AND HOUSEHOLD AFFORDABILITY: THE CASE OF THE ROODEPOORT REGIONAL NODE IN JOHANNESBURG - <b>R Khoza</b> and R Behrens, University of Cape Town
12:30 – 13:00	DISCUSSION SESSION: TRAVEL BEHAVIOUR AND TRAVEL CHOICES
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>SESSION CHAIRS: Prof Roger Behrens, University of Cape Town</b>	
14:00 – 14:30	SOCIAL FACILITY PLANNING: COMPARING ACCESSIBILITY IN TSHWANE BASED ON DIFFERENT TRANSPORT NETWORKS - <b>R Komane</b> , CSIR and DJ du Plessis, Stellenbosch University
14:30 – 15:00	MOVING BARRIERS, INCREASING ACCESS: AN ASSESSMENT OF THE MOBILITY OF WOMEN WITH DISABILITIES AND ELDERLY WOMEN - R Gitau, N Mwaura and <b>L Kihonge</b> , Flone Initiative KENYA
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	BREAKING BARRIERS TO INCREASE THE PARTICIPATION OF WOMEN IN CYCLING IN NAIROBI CITY COUNTY - <b>R Gitau</b> , Flone Initiative KENYA
16:00 – 16:30	BICYCLE MOBILITY IN SOUTHERN AFRICA: A MARKET SYSTEM INVESTIGATION INTO DEMAND AND USE – W Sambu and G Jennings
16:30 – 17:00	USING SYSTEMS DYNAMICS TO SUPPORT A CITY'S GROWTH AND DEVELOPMENT STRATEGY (GDS): A CITY OF JOHANNESBURG CASE STUDY - <b>M Rathogwa</b> and <b>R Malope</b> , CSIR
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## THURSDAY, 13 JULY

<b>07:30 – 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	Briefing for presenters and chairs in the respective venues
<b>SESSION 4C – WOMEN IN TRANSPORT</b>	
<b>SESSION CHAIR: Ms Lesedi Mokoma, CSIR</b>	
08:30 – 09:00	KEYNOTE ADDRESS – <b>L Sewnarain</b> , SMEC South Africa
09:00 – 09:30	PLANNING FOR RESILIENCE, EMBEDDING RISK – <b>NF Moloto</b> , Tsa Afrika
09:30 – 10:00	DIALOGUES FOR GENDER-INCLUSIVE MOBILITY IN CAPE TOWN - <b>AG Newlands, FB Grosse-Weischede</b> and MJWA Vanderschuren, University of Cape Town
10:00 – 10:30	"EMPOWERING WOMEN IN THE TRANSPORTATION SECTOR TO FOSTER RESILIENCE" – <b>V Leyka</b> , Seraph Network
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
11:00 – 11:30	ATTRACTING AND RETAINING WOMEN IN PUBLIC TRANSPORT – <b>I Mncwango</b> , Gauteng Women in Transport Bus Operators
11:30 – 12:00	<b>N Mhlanga</b> , Standard Bank
12:00 – 12:30	THE UPSKILLING OF FEMALE CIVIL ENGINEERS AT 8 SOUTH AFRICAN METROS – <b>B Jonsson</b> , SA Road Federation
12:30 – 13:00	<b>I Lalgy</b> , Lalgy Transporters Mozambique-Transport and Logistics
<b>13:00 – 14:00</b>	<b>LUNCH</b>
14:00 – 14:30	SHE CAN: A TOOL TO EMPOWER DECISION MAKERS TO ADDRESS SEXUAL HARASSMENT IN PUBLIC TRANSPORT IN SUB-SAHARAN AFRICA - <b>TE Lane-Visser</b> and MJWA Vanderschuren University of Cape Town
14:30 – 15:00	FUNDING FOR SMME'S AND JOB CREATION BY SMME'S – <b>A Ngxeketo</b> , Mamoja Trading and Projects
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
15:30 – 16:00	HOW WOMEN USE SOCIAL NETWORKS TO NAVIGATE "INFORMAL" PUBLIC TRANSPORT SYSTEMS: A COMPARATIVE CASE STUDY OF TSHWANE AND KAMPALA - <b>G Ankunda</b> , S Harvett and L Mokoma, University of Pretoria
16:00 – 16:30	HOW TO BUILD RESILIENCE BY CREATING A STRONG BRAND AND IMPLEMENTING A PRO-ACTIVE COMMUNICATION PLAN – <b>C Larkin</b> , CILTA
16:30 – 17:00	CLOSING REMARKS – <b>L Mabece</b> , Bulumko Law Advisors
<b>17:10</b>	<b>BUS DEPARTS FOR APPOINTED HOTELS</b>

## THURSDAY, 13 JULY

<b>07:30 - 08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>08:10</b>	Briefing for presenters and chairs in the respective venues
<b>SESSION 4D – PUBLIC PRIVATE PARTNERSHIP WORKSHOP</b>	
<b>08:30 – 10:30</b>	<p>PANEL DISCUSSION: SHOWCASING THE BUSINESS MODELS THAT WERE DEVELOPED AND IMPLEMENTED BETWEEN THE MINIBUS TAXI (MBT) INDUSTRY, COMMERCE AND THE PUBLIC SECTOR</p> <ul style="list-style-type: none"> <li>• MBT SECTOR OFFERING SCHEDULED SERVICES, THE CASE STUDY IN GAUTENG</li> <li>• THE USE OF DATA AND TECHNOLOGY TO INFORM INVESTMENT DECISIONS BY THE MBT INDUSTRY FOR THE INDUSTRY</li> <li>• FINANCIAL MODELS THAT THE MBT SECTOR DEVELOPED TO ATTRACT PRIVATE INVESTMENT FOR VEHICLE FINANCING AND OPERATIONS.</li> <li>• INVESTMENT ROAD SHOWS BETWEEN MBT, INTERNATIONAL DONORS AND LOCAL DEVELOPMENT INSTITUTIONS</li> <li>• QUESTIONS AND ANSWERS</li> </ul>
<b>10:30 – 11:00</b>	<b>REFRESHMENTS</b>
<b>11:00 – 13:00</b>	<p>PANEL DISCUSSION: DIGITALISATION AND TECHNOLOGY CASE STUDIES USING DEMAND RESPONSIVE TECHNOLOGIES DESIGNED BY COMMERCE FOR THE PARATRANSIT SECTOR</p> <ul style="list-style-type: none"> <li>• REFLECTING ON DEMAND RESPONSIVE BOOKING SOFTWARE, A COLLABORATION BETWEEN METROS AND CARPOOLS IN SOUTH KOREA, AND OTHER CITIES ACROSS THE WORLD.</li> <li>• DIGITAL FARE COLLECTION PACKAGES USED BY MINIBUS TAXI OPERATORS- A REFLECTION OF A SUCCESSFUL CASE STUDY IN NORTHWEST PROVINCE.</li> <li>• QR SYSTEM FOR DATA GATHERING IN THE MINIBUS TAXI SYSTEM FOR PRIVATE AND PUBLIC SECTOR:</li> <li>• PILOT STUDY FOR TAXI AND BOOKING SYSTEM TO ENHANCE MUNICIPAL DECISION MAKING</li> <li>• QUESTIONS AND ANSWERS</li> </ul>
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 14:30</b>	INNOVATIVE FUNDING MECHANISMS FOR PUBLIC TRANSPORT - <b>K Kwinana</b> , Pegasys Strategy and Development, C Rabe, Palmer Development Group, M Weber and P Koch, Pegasys Strategy and Development
<b>14:30 – 15:00</b>	ROAD FUNDING OPTIONS: A CASE STUDY OF HOW GAUTENG CAN COVER THE 14.1 BILLION RAND E-TOLL DEBT AND 6.9 BILLION RAND REFUNDS - <b>MM Muthige</b> , Independent Researcher
<b>15:00 – 15:30</b>	<b>REFRESHMENTS</b>
<b>END OF SESSION (Delegates may join other sessions)</b>	

**Please note that this is a DRAFT Programme and may be subject to some alterations before the Conference.**

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**We look forward to welcoming you at SATC 2023**