



canso

Africa
Conference 2018

3-5 September, Mombasa, Kenya

**Improving efficiency through
collaborative decision making
and air traffic flow management**



ORGANISER



HOST



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Organised by **CANSO**



CANSO – the Civil Air Navigation Services Organisation – is the global voice of air traffic management (ATM) worldwide. CANSO Members support over 85% of world air traffic. Members share information and develop new policies, with the ultimate aim of improving air navigation services (ANS) on the ground and in the air. CANSO represents its Members' views to a wide range of aviation stakeholders, including the International Civil Aviation Organization, where it has official Observer status. CANSO has an extensive network of Associate Members drawn from across the aviation industry.



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Hosted by **Kenya Civil Aviation Authority**



Kenya Civil Aviation Authority (KCAA) was established on 24th October 2002 by the Civil Aviation (Amendment) Act, 2002 with the following primary functions:

- Regulation and oversight of Aviation safety & Security
- Economic regulation of Air services and development of Civil Aviation
- Provision of Air Navigation Services
- Training of Aviation personnel

KCAA operations are guided by the provisions of the convention on international civil aviation and the related ICAO Standards And Recommended Practices (SARPs) and the Kenya Civil Aviation Act 2013 as amended, the civil aviation regulations, procedures and practices.

The broad mandate of KCAA is to plan, develop, manage, regulate and operate a safe, economically sustainable and efficient civil aviation system in Kenya, in accordance with the provisions of the Civil Aviation Act, 2013.

KCAA's vision is "To be a model of excellence in civil aviation" and a mission to develop, regulate and manage a safe, efficient and effective civil aviation system in Kenya.

As a service provider, KCAA provides Air Traffic Management Services at eight aerodromes in Kenya (Jomo Kenyatta International Airport -JKIA, Moi International Airport -MIA, Eldoret International Airport -EIA, Wilson, Malindi, Kisumu, Wajir and Lokichoggio) where it is responsible for the management and operation of Air traffic services and Search and Rescue within the Nairobi Flight Information Region (FIR).

Air Traffic Management Services includes:

- En-route Control; these are offered at JKIA by Area Control Centre for over flights, landing and departing aircrafts. These services enable aircrafts to navigate through the airspace and are backed by ground equipment situated all over the country including surveillance radar and datalink (ADS-C/CPDLC in designated oceanic airspace);
- Approach Control; these are offered in all the airports manned by KCAA except Lokichoggio;
- Aerodrome Control; these are offered in all the eight major airports. These services allow aircrafts to come and leave the aerodromes. These are backed by the instrument landing systems and GNSS procedures that enable aircrafts to land and take off safely;
- Air Traffic Flow Management (ATFM); the objective of this service is to ensure optimum flow of Air Traffic to or through areas during times when demand exceeds, or is expected to exceed, available capacity of the Air Traffic Control System, KCAA is working towards achieving this through a Collaborative Decision making process;
- Search and Rescue; this involves the coordination and direction of search and rescue services with all partner agencies for aircrafts in distress. KCAA has a Rescue Coordination Center located at JKIA and collaborates nationally with the Kenya Maritime Authority to cover the Indian Ocean area. Internationally KCAA collaborates with the COSPAS SARSAT system through Italian Mission Control Center- ITMCC. Additionally KCAA is party to the East African Community Search and Rescue framework that allows for interstate use of SAR resources.

Due to projected traffic growth, KCAA is investing in new technology in order to cope with the traffic growth so as to provide high level of operational safety, efficiency, cost effective and environmentally friendly services while reducing delays for the flying public.

KCAA is a government parastatal governed by the State Corporation Act (Cap 446) of the laws of Kenya and is an industry leader in promoting and fostering safe, secure, efficient orderly civil aviation in Kenya and overseas through strong relationships, industry forums and engagement.



Dear CANSO Delegates,

Karibu Kenya!!

Captain Gilbert Kibe,

Director General - Kenya Civil Aviation Authority

Theme

"Improving efficiency through collaborative decision making
and air traffic flow management."



Sponsored by **AIREON**



Aireon is deploying a space-based air traffic surveillance system for automatic dependent surveillance-broadcast (ADS-B) equipped aircraft throughout the entire globe. Aireon will harness next-generation aviation surveillance technologies that are currently ground-based and, for the first time ever, extend their reach globally to significantly improve efficiency, enhance safety, reduce emissions and provide cost savings benefits to all stakeholders. Real-time ADS-B surveillance will cover oceanic, polar and remote regions, as well as augment existing ground-based systems that are limited to terrestrial airspace. In partnership with leading air navigation service providers (ANSPs) from around the world, like NAV CANADA, Irish Aviation Authority (IAA), ENAV, Naviar and NATS, as well as Iridium Communications, Aireon will have an operational, global, space-based air traffic surveillance system in 2018.



SPACE-BASED ADS-B

MAKING GLOBAL AIR TRAFFIC SURVEILLANCE A POWERFUL REALITY

Aireon will harness next-generation aviation surveillance technologies that are currently ground-based and, for the first time ever, extend their reach globally to provide safety benefits to all stakeholders.

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FOREWORD BY

Jeff Poole,
Director General,
CANSO

Dear Colleagues,

Welcome to the CANSO Africa Conference 2018 – the annual event for ATM operators, innovators and thought-leaders in the region. I wish to thank Kenya CAA as host for its strong support and facilitation, and also lead sponsor Aireon and our other sponsors and exhibitors for their support.

Since we last met in Marrakech last year, CANSO has been working on improving safety standards in the region through the Africa ATM Safety Peer Review Initiative, building awareness of the importance of CDM and A-CDM through a targeted symposium, and working with key industry partners on delivering a single African sky – to highlight just a few activities. Simon Hocquard, Deputy Director General, will cover these in more detail during his Opening Remarks at the Conference.

The theme of the CANSO Africa Conference this year is 'Improving Efficiency through Collaborative Decision Making (CDM) and Air Traffic Flow Management (ATFM)', an exploration of how collaborative processes and procedures can help drive effective ATM operations in a high-growth region and build a strong, sustainable framework for the future.

Over the next two decades, air traffic within the continent will increase by an extra 274 million passengers per year, with an annual average growth rate of approximately 5.9 percent – the highest of any region in the world. In order to meet this growing demand, our task is two-fold – to make sure we are utilising the practical tools and technologies available to us, and that the ATM and aviation industry is working together effectively to optimise performance.

During the Conference, we will learn how processes and procedures like CDM and ATFM can solve key issues in operations and harness the power of partnership, delivered through a variety of in-depth and interactive sessions. I invite you to listen closely, share your perspectives, consider the challenges for implementation and identify opportunities for improvement.

To provide more information on tools and technologies, the Conference includes an Aireon space-based ADS-B workshop and a CANSO safety workshop on drones. You can also discover the latest ATM innovations in the exhibition area, and enjoy a variety of networking opportunities with peers, customers and suppliers.

The Conference offers a truly diverse and informative range of topics and speakers and will enable timely discussion on the future of ATM in Africa. I am delighted that you will be participating and I hope you make the most of your time in Mombasa. I wish you all an inspiring and enjoyable Conference.

A stylized, handwritten signature in dark ink, appearing to read 'Jeff Poole'.

Jeff Poole
Director General
CANSO



PROGRAMME AT-A-GLANCE



MONDAY 3 SEPTEMBER 2018

15:00-15:30

**Registration for Workshop on Space-Based ADS-B:
The Path to Full ATS Surveillance in Africa**

📍 Tamanisha Hall Foyer

15:30-17:30

**Workshop on Space-Based ADS-B:
The Path to Full ATS Surveillance in Africa**

📍 Tamanisha Hall

Hosted and Sponsored by



19:00-21:00

Welcome Reception

📍 Beach Front Gardens, Sarova Whitesands
Beach Resort and Spa

Hosted by





TUESDAY 4 SEPTEMBER 2018

08:00-09:00

Conference Registration

📍 Exhibition Area

09:00-17:45

CANSO Africa Conference 2018

📍 Conference Area

09:00-17:45

Exhibition

📍 Exhibition Area

19:00-22:00

Conference Dinner

📍 English Point Marina, Mombasa

Please meet in the Sarova Whitesands Beach Resort and Spa Lobby for an 18:00 departure.

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WEDNESDAY 5 SEPTEMBER 2018

08:00-09:00

Conference Registration

📍 Exhibition Area

09:00-15:30

CANSO Africa Conference 2018

📍 Conference Area

09:00-17:00

Exhibition

📍 Exhibition Area

19:00-22:00

Closing Dinner

📍 Dinner Cruise, Mombasa

Please meet in the Sarova Whitesands Beach Resort and Spa Lobby for an 18:00 departure.

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efficiently managing air safety



THURSDAY 6 SEPTEMBER 2018

08:30-09:00

Registration for Safety Workshop

📍 Tamanisha Hall Foyer

09:00-17:00

Safety Workshop

📍 Tamanisha Hall



FRIDAY 7 SEPTEMBER 2018

08:30-09:00

Registration for Safety Workshop

📍 Tamanisha Hall Foyer

09:00-13:00

Safety Workshop

📍 Tamanisha Hall



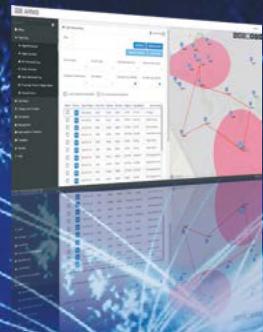
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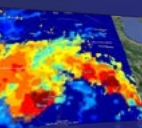
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Tool



Collaborative
Decision Making

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FULL PROGRAMME



MONDAY 3 SEPTEMBER 2018

15:00-15:30

**Registration for Workshop on Space-Based ADS-B:
The Path to Full ATS Surveillance in Africa**

📍 Tamanisha Hall Foyer

15:30-17:30

**Workshop on Space-Based ADS-B:
The Path to Full ATS Surveillance in Africa**

📍 Tamanisha Hall

Hosted and Sponsored by



With approximately 90% of the Iridium NEXT constellation completed, the Aireon payloads anticipate receiving over 25 billion ADS-B messages per year. With aircraft position data unconstrained by terrestrial limits, Aireon will provide the aviation industry with advanced decision support for use within their airspace, and beyond.

This workshop provides an open discussion forum on space-based ADS-B. Current Aireon customers, South Africa's Air Traffic & Navigation Services (ATNS) and the Agency for Aerial Navigation Safety in Africa and Madagascar (ASECNA) share their concept of operations in their respective airspace, how each customer is integrating space-based ADS-B data into their existing systems and automation platforms, interoperability within the region, and how they see space-based ADS-B surveillance enhancing their safety throughout.

This will be more than an overview of the service, but rather a path to operational implementation in Africa and how space-based ADS-B will shape the future of air traffic surveillance.

Topics include:

- Experiences and concept of operations from current customers ATNS and ASECNA
- Technical implementation
- Using space-based ADS-B as an operations ATS surveillance
- How the African community can work together to use space-based ADS-B across borders and regions

19:00-21:00

Welcome Reception

📍 Beach Front Gardens, Sarova Whitesands
Beach Resort and Spa

Hosted by



TUESDAY 4 SEPTEMBER 2018

08:00-09:00

Conference Registration

📍 Exhibition Area

09:00-17:45

Exhibition

📍 Exhibition Area

09:00-09:30

Opening Remarks

📍 Conference Area

- **Simon Hocquard**, Deputy Director General, CANSO
- **Hamza Johari**, Director General, Tanzania Civil Aviation Authority, and Chair, Africa CANSO CEO Committee (AFC3)
- **Captain Gilbert Kibe**, Director General, Kenya Civil Aviation Authority, and CANSO Executive Committee Member
- **Hon. James Macharia**, Cabinet Secretary, Ministry of Transport, Infrastructure, Housing and Urban Development, Government of the Republic of Kenya

Facilitator: **Boni Dibate**, Director Africa Affairs, CANSO

09:30-10:30

Report back on APIRG 21 decisions, Uganda CDM Conference and South Africa CDM/A-CDM Symposium

📍 Conference Area

CANSO encourages collaboration and is committed to improving the efficiency of global air transport. The 21st Meeting of the ICAO Africa-Indian Ocean (AFI) Planning and Implementation Regional Group (APIRG 21) concluded that Africa needs to ensure seamless operations in air traffic management (ATM) to implement an Africa-Indian Ocean (AFI) Seamless Sky.

To support its work in implementing CDM and ATFM, CANSO organised a CDM conference in Uganda in 2016 and a CDM/A-CDM symposium in South Africa in 2018. They concluded that the Africa region was lagging in implementing CDM processes, and that all industry stakeholders need to be involved in decision-making during all phases of flight so that sharing information is more effective and safety in Africa is enhanced.

This session will review the status of CDM implementation in Africa and the presenters will discuss recommendations for their regions through presentations and roundtable discussions.

- **Prosper Zo'o Minto'o**, Deputy Regional Director, ICAO Western and Central African Office
- **Richard Mujungu Ruhesi**, Director Air Navigation Services, CAA Uganda

Facilitator: **Boni Dibate**, Director Africa Affairs, CANSO

User Perspective Round Table

- **Abderahmane Berthé**, Secretary General, African Airlines Association (AFRAA)
- **Protus Seda**, Assistant Director Safety and Flight Operations AFI, IATA
- **John Nalinya**, Head of Operations Control Centre, Kenya Airways

Facilitator: **Boni Dibate**, Director Africa Affairs, CANSO

10:30-11:15

Networking Break

📍 Exhibition Area

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11:15-12:30

Lessons from Other Regions' Implementation of CDM and ATFM

📍 Conference Area

ATFM is an enabler of air traffic management efficiency and effectiveness. It is also a major enabler of global interoperability of the air transport industry. ATFM has been implemented in many different countries. Standardised ATFM processes need to be implemented globally. This session will include viewpoints from different regions on how they implemented ATFM in their areas, and the challenges and successes experienced along the way.

Captain Fola Akinkuotu, Managing Director, NAMA

Panel Discussion

- **Javier Vanegas**, Director Latin America and Caribbean Affairs, CANSO
- **Midori Tanino**, Global ATM Programme Manager, FAA ATO International
- **Simon Zwane**, Senior Manager ATM Planning, ATNS

Facilitator: **Sandile Maphanga**, Senior Manager ANS, South African Civil Aviation Authority (SACAA)

12:30-13:30

Lunch

📍 Exhibition Area

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13:30-14:30

Industry Perspective – Benefits of Implementing CDM/ATFM

📍 Conference Area

Collaborative decision-making (CDM) is about all aviation partners being efficient and transparent in the way they work and share data. CDM improves operational efficiency at airports and en-route by reducing delays, improving the predictability of events during the progress of a flight and optimising the utilisation of resources.

With airport CDM (A-CDM) the network is served with more accurate take-off information to determine ATFM slots. Decision-making by the airport CDM partners is improved by sharing accurate and timely information and adapted operational procedures, automatic processes and user-friendly tools.

This panel will discuss how CDM and ATFM has improved operations and assisted other operators in implementing CDM/ATFM in their own operations.

- **Vivendra Lochan**, Chief Operating Officer, Airlines Association of Southern Africa (AASA)
- **Protus Seda**, Assistant Director Safety and Flight Operations AFI, IATA
- **Fiona Omondi**, Business Development and Projects Manager, Tradewinds Aviation Services Kenya
- **Nonjabulo Gumede**, ARMA Specialist, AFI Regional Monitoring Agency

Facilitator: **Simon Hocquard**, Deputy Director General, CANSO

14:30-16:00

Process and Implementing CDM and/or ATFM

📍 Conference Area

Airport collaborative decision-making (A-CDM) is an important enabler that improves operational efficiency, predictability and punctuality in the ATM network and for airport stakeholders. A-CDM, together with ATFM, improves the operating efficiency of airport partners, and contributes to reduced buffer times for resource planning and flight times due to enhanced predictability. The implementation of A-CDM and ATFM transforms many of the communication policies and procedures that have historically dominated the airport operations environment, bringing substantial improvements to all partners. A-CDM is implemented in the airport environment through the introduction of processes which realise the aims of the Concept Elements. These elements are: understanding CDM; processes; stakeholders; implementation; and human factors.

CANSO is developing a guide to assist ANSPs in implementing the A-CDM concept and processes. The guide outlines topics for consideration such as the involvement of relevant stakeholders when implementing A-CDM. Additionally, CANSO supports regional and local development and implementation initiatives by providing practical information and support in regional seminars and workshops.

For this session, the conference will be divided into five groups. The groups will discuss different aspects of CDM, the 'Concept Elements', including understanding CDM right up to its implementation. The objectives of these groups will be to ensure participants understand CDM as a process with the aim of producing standard action plans for Africa which meet ICAO recommended practices.

- *Understanding CDM*

Sandile Maphanga, Senior Manager ANS, South African Civil Aviation Authority (SACAA)

- *Processes*

Richard Mshelbara, Deputy General Manager, SMS, NAMA

- *CDM/ATFM Stakeholders*

Mabitsi Legodi, Senior Manager, Business Development, ATNS

- *Implementation*

David Matovu, Manager SMS, CAA Uganda

- *Human Factors*

Simon Peter Njoroge, Operations Manager, Kenya Airports Authority

Facilitator: **Rafael Quezada**, Operations Programme Manager, CANSO

16:00-16:45

Networking Break

📍 Exhibition Area

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16:45-17:30

Report Back and Commitments on 'Concept Elements' from Groups

📍 Conference Area

- **Sandile Maphanga**, Senior Manager ANS, South African Civil Aviation Authority (SACAA)
- **Richard Mshelbara**, Deputy General Manager, SMS, NAMA
- **Mabitsi Legodi**, Senior Manager, Business Development, ATNS
- **David Matovu**, Manager SMS, CAA Uganda
- **Simon Peter Njoroge**, Operations Manager, Kenya Airports Authority

Facilitator: **Rafael Quezada**, Operations Programme Manager, CANSO

17:30-17:45

Summary of the Day

📍 Conference Area

- **Hamza Johari**, Director General, Tanzania Civil Aviation Authority, and Chair, Africa CANSO CEO Committee (AFC3)

19:00-22:00

Conference Dinner

📍 English Point Marina, Mombasa

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Please meet in the Sarova Whitesands Beach Resort and Spa Lobby for an 18:00 departure to the Conference Dinner.

Coaches will depart from the Conference Dinner at 22:00, returning to the Sarova Whitesands Beach Resort and Spa at 23:00.



WEDNESDAY 5 SEPTEMBER 2018

08:00-09:00

Conference Registration

📍 Exhibition Area

09:00-17:00

Exhibition

📍 Exhibition Area

09:00-09:15

Opening Session

📍 Conference Area

- **Simon Hocquard**, Deputy Director General, CANSO

09:15-10:15

The influence of technology as an enabler of CDM

📍 Conference Area

Collaborative decision-making (CDM) embodies a certain philosophy for managing air traffic and is a concept that goes hand-in-hand with free flight. Advances in the technologies underlying communications, navigation and surveillance are leading the way towards this free flight, creating an architecture in which the responsibility for the safe progress of an aircraft through airspace can be shared between the pilot and the air traffic system.

The initial implementation of CDM in other countries, has aimed at ground delay programme improvements. Work is underway to apply CDM technology and concepts in other areas including distributing information and managing en-route traffic. This session will analyse the initial implementation of CDM, describe some of the tools and technologies that have been developed as part of the CDM effort and explore the future research and developments of CDM technology.

- **Flora Mwanshinga**, Chief Air Navigation Engineer, Tanzania Civil Aviation Authority
- **Cyriel Kronenburg**, Vice President, Aviation Services, Aireon LLC
- **Stuart Ratcliffe**, Director Business Development, Metron Aviation, and Co-Chair, CANSO ATFM Workgroup
- **Peter Majgard Norbjerg**, Director of Air Traffic Solutions, Aerial & Maritime

Facilitator: **Thabani Mthiyane**, CEO, ATNS

10:15-11:00

Networking Break

📍 Exhibition Area

Sponsored by

NORTHROP GRUMMAN

11:00-12:00

Plan for implementing CDM and ATFM in Africa

📍 Conference Area

This panel will recommend universal plans for implementing CDM in Africa so that the Africa region will have acceptable standards for implementing CDM, ACDM and ATFM.

- **David Labrosse**, Regional Officer ATM/SAR, ICAO
- **Protus Seda**, Assistant Director Safety and Flight Operations AFI, IATA
- **Rishi Thakurdin**, Director Safety and Technical, ACI Africa
- **Stuart Ratcliffe**, Director Business Development, Metron Aviation, and Co-Chair, CANSO ATFM Workgroup
- **Rafiq Arogunjo**, General Manager SMS, NAMA

Facilitator: **Javier Vanegas**, Director Latin America and Caribbean Affairs, CANSO

12:00-13:00

Africa ATM Safety Peer Review Initiative – A way forward for improved safety in Africa through CDM

📍 Conference Area

The Africa ATM Safety Peer Review Initiative was launched in February 2015 to address some of the air navigation challenges that the Africa region faces. The initiative seeks to observe and assess the degree of compliance with safety regulatory requirements and the provisions of a safety management system (SMS) if one is in place.

This session will present an update on the programme and through round table discussions also provide recommendations of how other areas of air navigation including CDM, PBN and ASBUs will be implemented, and what role CANSO can play.

Prosper Zo’o Minto’o, Deputy Regional Director, ICAO
Western and Central African Office

Round Table Discussion 1

- **Sidi Kone**, Head of Air Navigation Department, ASECNA
- **Simon Zwane**, Senior Manager ATM Planning, ATNS

Round Table Discussion 2

- **Richard Mujungu Ruhesi**, Director Air Navigation Services, CAA Uganda
- **Loise Mwangi**, Radar Air Traffic Control Officer, Kenya Civil Aviation Authority
- **Joseph Magida**, Principal Air Traffic Management Officer, Tanzania Civil Aviation Authority

Round Table Discussion 3

- **Richard Mshelbara**, Deputy General Manager Safety Management Systems, NAMA
- **Charles Kraikue**, Director, Air Traffic Safety Engineering, Ghana Civil Aviation Authority
- **Badara A. Tarawaley**, Secretary General, Roberts Flight Information Region

Round Table Discussion 4

- **Ernesto Manhica**, Director of Operations and Air Navigation, Aeroportos de Moçambique E.P.
- **Frank Chinambu**, Director Air Navigation Services, Zambia Airports Corporation Limited

Facilitator: **Boni Dibate**, Director Africa Affairs, CANSO

13:00-14:00

Lunch

📍 Exhibition Area

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ROHDE & SCHWARZ

14:00-15:00

The Status of Performance-Based Navigation (PBN) Implementation in Africa and Update from 2017

📍 Conference Area

The International Civil Aviation Organization (ICAO) urges all States to implement routes and airport procedures in accordance with the ICAO PBN criteria. ICAO established Regional PBN Implementation Task Forces to coordinate the regional implementation programmes. In this session, CANSO Member ANSPs will present and discuss the status of PBN implementation in their environments; assess their levels of compliance with the ICAO criteria; and discuss a support mechanism for those ANSPs and countries needing assistance, in the spirit of ICAO's 'No Country Left Behind' initiative.

- **David Labrosse**, Regional Officer ATM/SAR, ICAO
- **Flora Wakolo**, Chief Air Traffic Control Officer, Kenya Civil Aviation Authority
- **Keziah Ogutu**, Executive Vice-President Africa & Middle East, IFATCA
- **Dave Joubert**, Manager: Airspace Efficiency, ATNS
- **John Chambo**, Acting Director Air Navigation Services, Tanzania Civil Aviation Authority

Facilitator: **Boni Dibate**, Director Africa Affairs, CANSO

15:00-15:30

Summary and Closing Remarks

📍 Conference Area

- **Simon Hocquard**, Deputy Director General, CANSO
- **Captain Gilbert Kibe**, Director General, Kenya Civil Aviation Authority, and CANSO Executive Committee Member

15:30

Networking Break

📍 Exhibition Area

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19:00-22:00

Closing Dinner

📍 Dinner Cruise, Mombasa

Hosted by



Please meet at the Sarova Whitesands Beach Resort and Spa Lobby for an 18:00 departure to the Closing Dinner.

Coaches will depart from the Closing Dinner at 22:00, returning to the Sarova Whitesands Beach Resort and Spa at 23:00.



THURSDAY 6 SEPTEMBER 2018

08:30-09:00

Registration for Safety Workshop

📍 Tamanisha Hall Foyer

09:00-17:00

Safety Workshop

📍 Tamanisha Hall

The integration of remotely piloted aircraft systems (RPAS) or drones into current and evolving air traffic management (ATM) systems, while ensuring the safety and efficiency of aviation operations, provides a significant challenge.

This two-day workshop will present best practices on safely managing RPAS or drone operations in and around controlled airspace from Africa, Europe and North America.

- **Kimberly Pyle**, Safety Programme Manager, CANSO
- **Boni Dibate**, Director Africa Affairs, CANSO
- **Larry Lachance**, Vice President, Safety and Quality, NAV CANADA



FRIDAY 7 SEPTEMBER 2018

08:30-09:00

Registration for Safety Workshop

📍 Tamanisha Hall Foyer

09:00-13:00

**Safety Workshop and Presentation of Safety Workshop
Certificates**

📍 Tamanisha Hall

The workshop concludes with the presentation of certificates to all participants.

- **Kimberly Pyle**, Safety Programme Manager, CANSO
- **Boni Dibate**, Director Africa Affairs, CANSO
- **Larry Lachance**, Vice President, Safety and Quality, NAV CANADA

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Our Members are shaping the future for a safe, efficient and seamless airspace - join CANSO.



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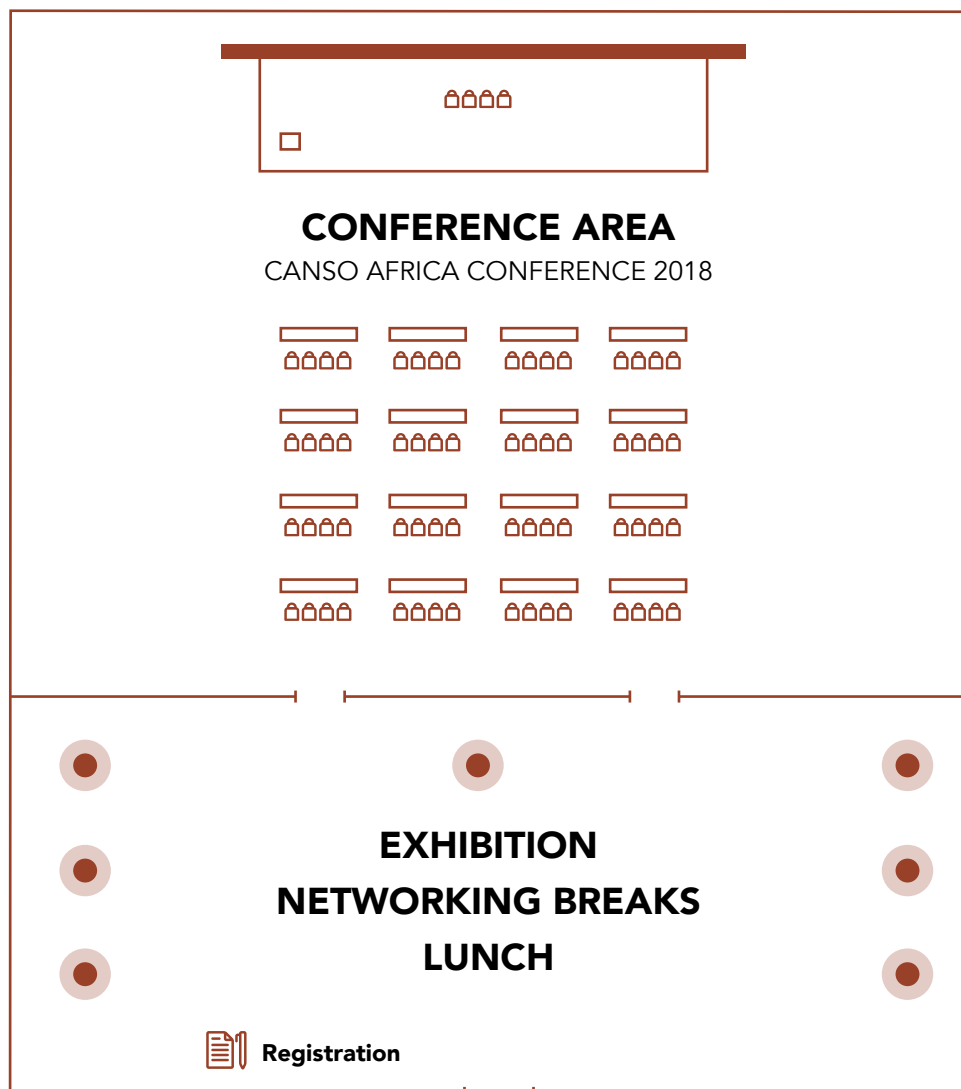
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Have your voice heard by governments, regulators and key stakeholders

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FLOORPLAN



EXHIBITORS:

- AERIAL & MARITIME • AIREON • ATNS •
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Aireon is deploying a space-based air traffic surveillance system for Automatic Dependent Surveillance-Broadcast (ADS-B) equipped aircraft throughout the entire globe. Aireon will harness next-generation aviation surveillance technologies that are currently ground-based and, for the first time ever, extend their reach globally to significantly improve efficiency, enhance safety, reduce emissions and provide cost savings benefits to all stakeholders. Real-time ADS-B surveillance will cover oceanic, polar and remote regions, as well as augment existing ground-based systems that are limited to terrestrial airspace. In partnership with leading Air Navigation Service Providers (ANSPs) from around the world, like NAV CANADA, the Irish Aviation Authority (IAA), ENAV, Naviair and NATS, as well as Iridium Communications, Aireon will have an operational, global, space-based air traffic surveillance system in 2018.

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[air-traffic-management](#)

IDS is an independent engineering and systems technologies company providing research, innovation and products in electromagnetic, air navigation, aeronautical and radar fields for both civil and defense applications. Since 1980 IDS has specialized in providing consulting services for high-tech engineering projects and in developing integrated solutions and measurement systems.

The Air Navigation Division develops and supports highly customizable commercial software solutions for both civil and military customers in the aeronautical fields of communications, navigation, surveillance and air traffic management. It provides integrated systems for instrument flight procedure design and ground validation, a comprehensive suite of applications for aeronautical information management, navigation aids performance assessment, radar siting and electromagnetic compatibility analysis.

Bronze Sponsor and Exhibitor



Contact Information:

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marketing@atns.co.za

atns.com

Air Traffic and Navigation Services (ATNS) State-Owned Company (SOC) LIMITED. ATNS SOC Limited is responsible for air traffic control in approximately 10% of the world's airspace. Our services extend further than the familiar air traffic control service, into the provision of vitally important aeronautical information used for all flight planning purposes as well as search and rescue coordination activities and the maintenance of a reliable navigation infrastructure.

ATNS continues to serve the ATM community through the deployment of leading technologies, as well as continual improvement of safety levels. We understand that as an entity our excellence in business can only be appreciated and valued when we ensure financial, social and environmental sustainability.

Bronze Sponsor and Exhibitor



AN **AIRBUS** COMPANY

Metron Aviation is helping the Air Traffic Flow Management industry minimize delays, reduce fuel costs and balance demand with capacity. Metron supports customers with a variety of ATFM tools and services that include decision management, post operational reporting and analysis, weather translation, environmental impact, assessment services, and advanced interactive ATFM simulation training. To solve your ATFM challenges, think Metron Aviation.

Contact Information:

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stuart.ratcliffe@metronaviation.com

metronaviation.com

Lunch Sponsor



Contact Information:

+49 894 12 90

div2.marcom@rohde-schwarz.com

rohde-schwarz.com/ATC

Our communications systems contribute to air traffic safety at more than 200 airports and flight operations centers worldwide. We are your trusted partner for your air traffic communication needs from the microphone to the antenna. Our fully IP-based system architecture enables best practice operational concepts such as virtual control centers where multiple locations are combined to a larger airspace. This helps ANSPs to mitigate short-term airspace volatility and to reduce staffing on nightshifts, achieving better workforce utilization and higher staff satisfaction.

Networking Break Sponsor



Contact Information:

+44 17 78 34 54 34

sales@uk.parkairsystems.com

parkairsystems.com

For 50 years Park Air has been the leading provider of ATM communications with an installed base in 180 countries; our latest Sapphire range of VHF/UHF radio systems are being delivered globally. Today, we recognise your emerging challenges of protecting your networks as you migrate to IP, so we are focussing on delivering a range of products and services that are specifically designed to protect ATM networks from the growing threat of online attack. Our cutting-edge security solutions and unrivalled expertise, backed up by Northrop Grumman's 30 years of cyber proficiency, makes us a trusted partner in protecting your networks.

Lanyard Sponsor

THALES

Contact Information:

+33 01 79 61 40 00

marketingatms@thalesgroup.com

thalesgroup.com

The people we all rely on to make air travel safe and efficient rely on Thales. Thales is a global leader in air traffic management, designing, delivering and supporting the aviation systems that keep our skies running. Our advanced technologies and ground-breaking innovations deliver solutions that are continually adapting to the ever-changing needs of the aviation industry. With engagement in all major ATM modernization initiatives, NextGen, ICAO ASBUs, and SESAR, Thales focuses on international harmonization. Our strong involvement in these initiatives, and the alignment of our product roadmaps, ensures that our solutions have been extensively tested, certified and validated.

Exhibitor



Contact Information:

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info@aerial-maritime.com

aerial-maritime.com

Aerial & Maritime was established in 2015 with main shareholders being GomSpace Group and the Investment Fund for Developing Countries (IFU). The Company's head office is located in Mauritius with subsidiaries and offices in Ghana and Denmark.

Aerial & Maritime offers a nanosatellite-based service for monitoring aircrafts and maritime vessels in a region spanning from latitudes 37 degrees Northern through 37 degrees Southern Latitude. Our primary offerings are Next-Generation enabled ADS-B and AIS services for monitoring aircraft and maritime vessels respectively.

Exhibitor



Contact Information:

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info@easa.ac.ke

easa.ac.ke

The East African School of Aviation (EASA) is a premier aviation training institution in Africa established in 1954. EASA is a Directorate of the Kenya Civil Aviation Authority (KCAA), EASA is an International Civil Aviation Organization (ICAO) Regional Training Centre of Excellence (RTCE), the 9th institution in the world to attain this status, it is recognized as one of the best equipped Civil Aviation Training Centres in Africa. It is also a designated Centre of Excellence by the EAC for the Northern Corridor partner states. EASA offers a wide range of aviation programmes using state of the art training equipment to achieve its vision. EASA courses are Competency-Based which ensures that its graduates have the requisite Knowledge, Skills and Attitude for the rapidly growing aviation industry. The school has campuses in Embakasi and Wilson Airport, it attracts trainees from East, West, Central and Southern Africa.

Exhibitor



indra

Contact Information:

+47 907 86 439

kjell.aasene@indra.no

indranavia.com

Indra is one of the world's top consulting and technology companies, and the advanced partner for core business operations of its customers everywhere.

Indra Navia, Indra's Norwegian subsidiary, delivers cutting-edge communication, navigation, and tower systems for the world's leading airports and air traffic control organizations. The company has for more than a century delivered some of the major technological breakthroughs within air traffic management. More than 1300 airports around the world rely on the GAREX, NORMARC and InNOVA family of products for their reliability, proven track record and low lifecycle cost.

Exhibitor



Contact Information:

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marcelohiayes@micronav.co.uk

micronav.co.uk

Micro Nav Limited, formed in 1988, is a leading specialist company developing and supplying air traffic control (ATC) and air defence (AD) simulators and training systems. This has been recognised with two Queen's Awards.

From designing and building the BEST (Beginning to End for Simulation and Training) simulator, through to data preparation and staff training, Micro Nav provides the complete solution for over 60 clients worldwide with Micro Nav BEST systems being used to train Air Traffic Controllers at some of the busiest airports in the world, including Heathrow and Dubai.



Global ATM Summit and 23rd AGM 2019

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in Geneva,
Switzerland

17-20 JUNE 2019

For more information please visit:

canso.org



FORTHCOMING CANSO EVENTS



CANSO Latin America and Caribbean Conference 2018

📍 Buenos Aires, Argentina
📅 5-7 November



CANSO Global ATM Safety Conference 2018

📍 Banff, Canada
📅 26-30 November



CANSO in Madrid 2019

CANSO brings together a number of high-profile CANSO events and countless networking opportunities in Madrid

📍 Madrid, Spain
📅 11-14 March



CANSO Global ATM Operations Conference 2019

📍 Langen, Germany
📅 10-11 April



CANSO Asia Pacific Conference 2019

📍 Fukuoka, Japan
📅 21-23 May



CANSO Global ATM Summit and 23rd AGM

📍 Geneva, Switzerland
📅 17-20 June



PRACTICAL INFORMATION



Event Venue

Sarova Whitesands Beach Resort and Spa

Malindi Road, Mombasa County,
Mombasa, Kenya

sarovahotels.com/whitesands-mombasa



Transport from Mombasa International Airport

KCAA offers airport transfers for delegates who have provided their flight and accommodation details upon registration online. Both Nairobi Jomo Kenyatta International Airport and Mombasa Moi International Airport will have KCAA information desks where you can get assistance and more information.

The most efficient way to travel to your hotel is to pre book a transfer from Mombasa International Airport via [mozio.com](https://www.mozio.com). The conference venue is located approximately a 45 minute drive from the airport depending on traffic. The approximate rate is USD 84 for a return transfer.

There are designated taxi ranks at Mombasa Moi International Airport. Taxis are yellow and have regulated rates. The rate of taxi from Mombasa Moi Airport to Sarova White Sands Beach Resort and Spa is approximately USD 20. Uber and Taxify cabs are also available.



WIFI Access

All delegates will have full access to Wi-Fi during the CANSO Africa Conference 2018. Wi-Fi information will be provided during registration periods and during the conference.



Time Zone

The time zone in Kenya is UTC +3 hours.



Language

Swahili is the official language of Kenya and English is widely spoken. The CANSO Africa Conference 2018 and social events will be conducted in English.



Currency

The Kenyan Shilling (KES) is the currency used in Mombasa. Banknotes start from 50 KES. 1 USD is approximately 101 KES and 1 EUR is approximately 118 KES.



Credit and Debit Cards

Most international credit cards including VISA, MasterCard and American Express can be used at various outlets including ATMs in Kenya.



Tipping

Tipping is customary in Mombasa. If a service charge is not indicated on the bill, it is advised to tip 10% of your overall bill.



Electronics

You may require an adapter in order to plug your appliances into the power sockets. The adapter required for Kenya is Type G (BS-1363). The electrical current is 240 volts AC / 50 Hz frequency.



Water

It is recommended to drink bottled water during your stay in Mombasa.



Emergency Contacts

Ambulance and Rescue:

St Johns Ambulance Service +254 41 249 062

or National Service: 999

Medical Emergency: 999

Fire Brigade: 999

Police: 999 / 112 / 911

Tourist Helpline: +254 02 604 764

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Put Us On Your Schedule.

Save The Date.



**World ATM
Congress 2019**

12-14 March 2019

Madrid, Spain

IFEMA, Feria de Madrid

www.worldatmcongress.org

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More Information and Registrations
<http://mai.mitrecaasd.org>

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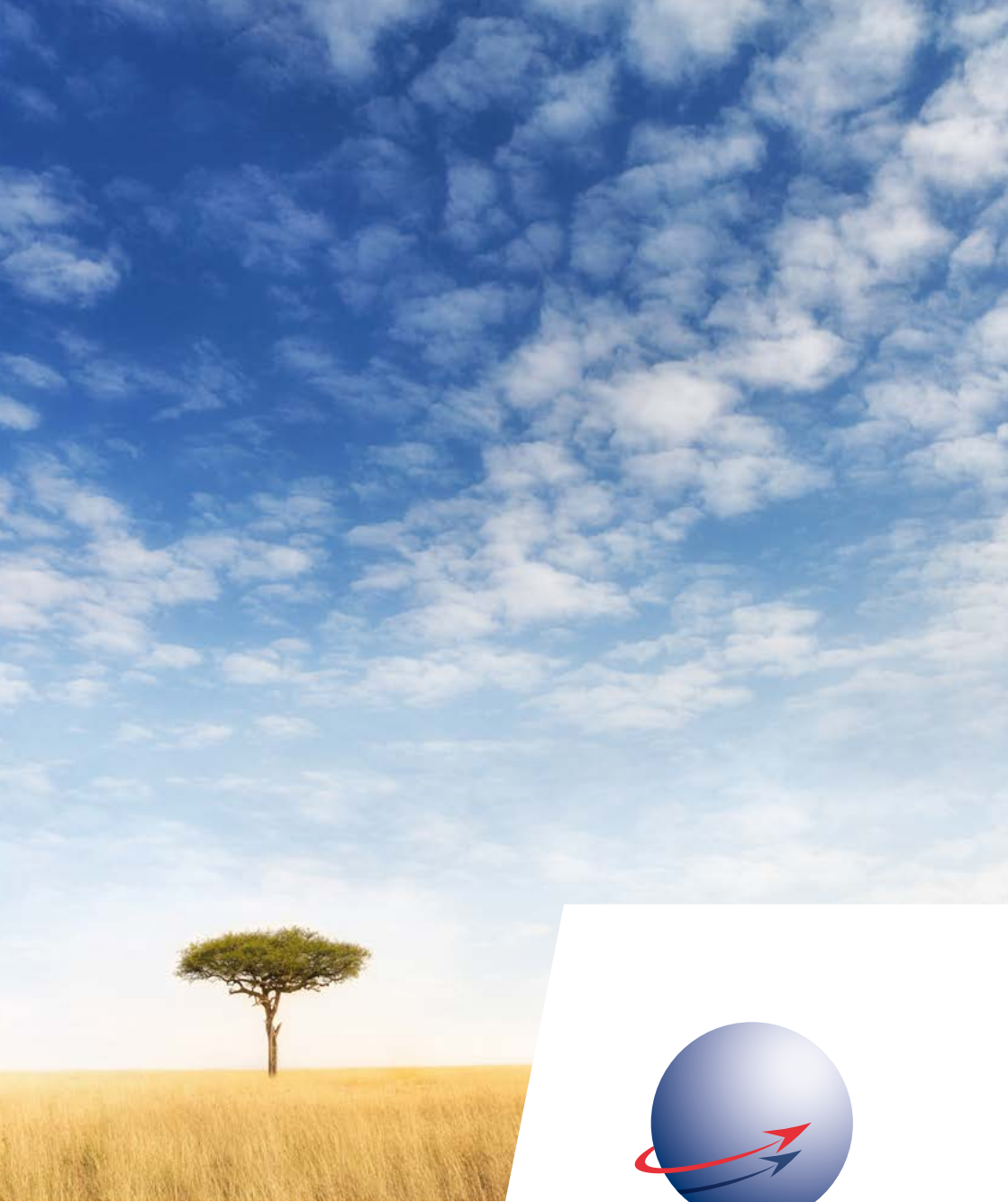
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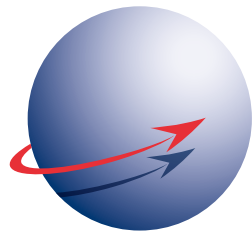
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