



**canso**

# **CANSO Global ATM Safety Conference 2019**

**Delivering safe skies in a rapidly changing  
global airspace system**

4-7 November, Paris, France

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HOST



DSNA

# Organised by **CANSO**



CANSO – the Civil Air Navigation Services Organisation – is the global voice of air traffic management (ATM) worldwide. CANSO members support almost 90 percent 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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**#CANSOsafety2019**

# Be part of the future of air traffic management



With CANSO's members supporting almost 90 per cent of world air traffic, CANSO is the global voice of air traffic management (ATM). Join today to help shape the future of a safe, efficient and seamless airspace.



## Be heard

By governments, regulators  
and key stakeholders



## Be connected

Build your network through CANSO  
events and digital platforms to reach  
**20,000** people



## Be inspired

Take advantage of the  
**40+** publications online and  
**160+** presentations per year



## Be active

Contribute to industry-defining best  
practice and thought-leadership through  
CANSO events and workgroups



## Be innovative

Showcase how your technology can  
help the industry and offer new ideas  
to common challenges

[canso.org](https://canso.org)



## **Delivering the best quality service to all users in one of the busiest airspaces in the world**

With 1,000,000 km<sup>2</sup>, the French air navigation services manage one of the largest airspaces in Europe.

The promotion of safety is the number one mission of DSNA. Far from being a restriction, it is a driver of development. DSNA is committed to integrated management systems for an even greater mastery of our professional practices.

Over the past 30 years, capacity of the French air traffic control system has increased three-fold with traffic now standing at 3,300,000 flights a year. French controllers handled a one-day peak of 11,311 flights on 12 July 2019, a European record!

DSNA in numbers: 7,409 people, five en-route control centres (ACC) located at Brest, Paris, Reims, Aix-en-Provence and Bordeaux, nine mainland regional services in charge of approach control and 75 aerodrome control (SNA) with headquarters located at Nantes, Lille, Paris, Strasbourg, Lyon, Nice, Marseille, Toulouse and Bordeaux along with three overseas services in the French West Indies-Guyana, in the Indian Ocean and in Saint Pierre and Miquelon. DSNA also provides support to the civil aviation services of the overseas territories in the Pacific (French Polynesia, New Caledonia, Wallis and Futuna).

DSNA is committed to a strategy of long-term investment to improve its performance. The technical modernisation of its air traffic control systems is a key element of this. Safety and cybersecurity remain critical requirements to ensure a future for air transport in a sustainable way. Thanks to the high degree of skills among DSNA personnel, this goal will be brought to completion for the benefit of the customers and users of the Single European Sky.







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Simon Hocquard,  
CANSO Director General

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# Welcome

Welcome to CANSO's safety conference 2019 – our annual event dedicated to optimising the safety performance of ATM globally. CANSO is pleased to organise this event with support from our host, DSNA.

Our industry faces a myriad of challenges – handling the predicted growth in air traffic while maintaining safety, cyber security, safely integrating UTM with our heritage airspace, new technologies such as space-based ADS-B, to name but a few. Working together to solve these problems is at the heart of what we do at CANSO.

There is some great work underway right now under CANSO's safety programme to bring the leading experts from across our industry together to tackle these issues. Cyber security experts from across the globe are working on a cyber maturity model and guidance material to help ANSPs understand the risks, what they need to do to protect themselves from a cyberattack and how we can be more proactive than reactive.

Our human performance management specialists are exploring how we maintain safety in today's sociotechnical environment where humans are increasingly integrated with technology. We are also exploring the implications of moving from a compliance-based approach to a more risk-focussed philosophy.

All these issues and more will be brought to life over the coming days, along with some thought-provoking sessions led by industry experts.

We hope you find the next few days inspiring and that you will go back to your organisations with fresh insight and ideas on how to keep driving improvements in safety.

Sincerely,

A stylized, handwritten signature in black ink, appearing to read 'SH'.

**Simon Hocquard**

CANSO Director General

# Programme

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## Conference Venue Details

**Renaissance Paris La Defense Hotel**

**60 Cours Valmy**

**Puteaux, 92800, France**

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## Monday 04 November 2019

● **08:30-09:00**

### **CANSOShare Registration**

*Open to CANSO Full members which submitted identified safety data and signed the data agreement (DIA)*

📍 Foyer Côté Seine, First Floor

● **09:00-17:00**

### **CANSOShare**

*Open to CANSO Full members which submitted identified safety data and signed the data agreement (DIA)*

📍 Côté Seine, First Floor

CANSO members track and benchmark worldwide safety data to assess trends, identify challenges and emerging issues, and find solutions to maintain the highest standards of safety. This session will provide a unique and detailed comparative analysis of Instrument Flight Rules (IFR)-IFR losses of separation (LOS) and runway incursion (RI) data for those ANSPs that submitted identified data. It will also look at outcomes of the CANSO/ EUROCONTROL Standard of Excellence in Safety Management Systems 2019 Measurement Questionnaire, used by ANSPs to improve their safety management system (SMS) maturity.

● **19:00-21:00**

### **Welcome Reception**

📍 Foyer Côté Seine, First Floor,  
Renaissance Paris La Defense Hotel

*Dress code: Smart Casual*

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DSNA



## **Tuesday** 05 November 2019

● **08:00-09:00**

### **Conference Registration**

📍 Foyer Côté Seine, First Floor

● **09:00-09:45**

### **Opening Remarks**

📍 Côté Seine, First Floor

- **Simon Hocquard**, Director General, CANSO
- **Maurice Georges**, Chief Executive Officer, DSNA
- **Larry Lachance**, Vice President Safety and Quality, NAV CANADA and Chair, Safety Standing Committee, CANSO

● **09:45-10:15**

### **The ANSP View of Key and Emerging Issues in Safety**

📍 Côté Seine, First Floor

Teri Bristol will talk about the FAA's safety agenda and their key areas of focus. She will also offer her perspective on the industry-wide challenges that need to be addressed to maintain and enhance our safety performance in an ever-changing industry. What are the most pressing safety issues for the industry, and what does the ATM industry need to do to overcome these?

#### **Keynote Speaker:**

- **Teri Bristol**, Chief Operating Officer, FAA

● **10:15-10:45**

### **Networking Break**

📍 Foyer Côté Seine, First Floor

Sponsored by



● **10:45-11:15**

### **A Spotlight on CANSO Safety Innovation and Collaboration**

📍 Côté Seine, First Floor

The CANSO Safety Programme Manager will provide the safety community view on the key issues facing the industry and outline the role of ATM safety experts in managing and predicting key safety issues and developing solutions to overcome these. This includes how CANSO members are working together to lead on key safety and related operational issues and develop best practice, and steps that will be taken over the course of the conference to progress this work.

- **Shayne Campbell**, Safety Programme Manager, CANSO

● **11:15-12:15**

### **Regional Safety Updates**

📍 Côté Seine, First Floor

Regional focus is one of the key priorities of CANSO. This session will highlight how CANSO members are transforming safety performance across its regions. It will offer insight into safety initiatives and planned activities across Africa, Latin America and Caribbean, Asia Pacific and Europe, and key accomplishments. What are the safety priorities for each region? What work is being done or still needs to be done moving forward? Hear views and calls to action from across the globe.

- **Boni Dibate**, Director Africa Affairs, CANSO
- **Heino Küster**, Head of Safety Policy & Performance, DFS Deutsche Flugsicherung GmbH
- **Thomas Ng**, Dy Head (Safety), ANS Safety & Security, CAAS
- **Javier Vanegas**, Director Latin America and Caribbean Affairs, CANSO



● **12:15-13:15**

### **Lunch**

📍 Foyer Côté Seine, First Floor

● **13:15-14:45**

### **Human Performance Management**

📍 Côté Seine, First Floor

As new ATM technologies and procedures are introducing system changes and greater reliance on automation and adaptation, flexibility is necessary to keep the system safe, efficient and effective. This session will illustrate the impact of change on human performance, and offer insight into how the CANSO Human Performance Standard of Excellence can contribute to improving or maintaining a high level of performance in a transforming environment.

- **Neil May**, Head of Human Factors, NATS and Co-Chair, Human Performance Management Task Force, CANSO
- **Jörg Leonhardt**, Head of Human Factors and Ergonomics, DFS Deutsche Flugsicherung GmbH and Co-Chair, Human Performance Management Task Force, CANSO
- **Remi Joly**, National Manager Human Factors, NAV CANADA and Co-Chair, Human Performance Management Task Force, CANSO

● **14:45-15:15**

### **Networking Break**

📍 Foyer Côté Seine, First Floor



● **15:15-16:15**

### **Using Safety Data in Your Daily Practice**

📍 Côté Seine, First Floor

As the industry continues to shift towards more automated and digital operations this session will consider how the data generated can be used to improve safety. It will examine a recent MoU between CANSO, the Flight Safety Foundation and Aireon to establish a data governance

structure for space-based ADS-B information to be used for developing safety information, and include an interactive panel and audience discussion to identify the strengths, weaknesses, opportunities and threats associated with the new data set. How will emerging safety data advance safety management systems, capabilities and approaches, and what are the considerations of the new data set?

### **Panel Discussion:**

- **Mike Balder**, National Quality Assurance Manager, FAA
- **Vincent Capezzuto**, CTO and Vice President of Engineering, Aireon LLC
- **Sinéad McCloskey**, Director of Safety, Aireon LLC and Vice Chair, Safety Standing Committee, CANSO
- **Andrea Sack-Nirschl**, Director Safety, Security and Quality, Austro Control GmbH

### **Facilitator:**

- **Heather Henderson**, Director, Corporate Safety Planning, Performance and Promotion, NAV CANADA and Co-Chair Safety Performance Measurement Workgroup, CANSO

## **16:15-17:00**

### **How to Address Cyber Safety in Your Organisation**

📍 Côte Seine, First Floor

Cyber safety is a critical emerging issue affecting the ATM industry. This session will explore the latest CANSO cyber safety guidance, including a first look at a new cyber maturity model and self-assessment tool that will help air navigation service providers to prepare for, detect, respond and recover from a cyber incident. This session will also highlight key updates to the CANSO Emergency Response Planning Guide, which helps ANSP services to remain safe during an emergency.

- **Matt Shreeve**, Director, Helios



● **17:00-17:15**

### **Closing of the Day**

📍 Côte Seine, First Floor

● **19:00-22:00**

### **CANSO Global Safety Achievement Award Dinner**

📍 Jacquemart-André Museum

*Please meet in the lobby of the Renaissance Paris La Defense Hotel for an 18:00 departure. Buses will depart the CANSO Global Safety Achievement Award Dinner at 22:00 returning to the Renaissance Paris La Defense Hotel.*

*Dress code: Cocktail*

Hosted by



DSNA



## **Wednesday** 06 November 2019

● **08:30-09:00**

### **Conference Registration**

📍 Foyer Côte Seine, First Floor

● **09:00-09:30**

### **Setting the Scene**

📍 Côte Seine, First Floor

Alex Bristol will offer his unique perspective on the importance of safety to the CANSO Membership and the next steps, actions, initiatives and progress required to be fit for the future.

- **Alex Bristol**, CEO, skyguide and CANSO Executive Committee Safety Champion

● **09:30-10:30**

## **Are We Too Safe?**

📍 Côté Seine, First Floor

The aviation industry is governed by a number of global standards and performance requirements that ensure it upholds the highest standards of safety worldwide. In an increasingly complex and regionally diverse industry, how does this work in practice, and what can be done to ensure we evolve and tailor best practice without jeopardising safety? Senior safety experts will examine areas where we could or should reconsider safety priorities and approaches from a safety, operational and regional point of view in order to advance as an industry. Are we too safe, and can we find ways to balance operational considerations and regional priorities alongside our safety objectives?

- **Glen Martin**, Vice President of Safety and Technical Training, FAA
- **Armin Beirle**, Head of ACC Langen, DFS Deutsche Flugsicherung GmbH and Chair Operations Standing Committee, CANSO
- **Larry Lachance**, Vice President Safety and Quality, NAV CANADA and Chair, Safety Standing Committee, CANSO
- **Des Whitty**, Director of Safety Quality and Environment, Saudi Air Navigation Services (SANS)

### **Facilitator:**

- **Huw Ross**, Principal Consultant, Helios and Member, Safety Standing Committee, CANSO

● **10:30-11:00**

## **Networking Break**

📍 Foyer Côté Seine, First Floor



## 11:00-11:45

### Safety Beyond Borders

📍 Côté Seine, First Floor

Neighbouring States often face challenges in coordinating and managing air traffic across borders. A common situational awareness is paramount to delivering safe, efficient and harmonised services and various initiatives across the globe are underway to improve the coordination of air traffic data, processes and interfaces between organisations managing neighbouring airspace. What can we learn from existing cross-border initiatives? What are the approaches, benefits and identified areas for improvement?

- **Osman Saafan**, Director Corporate Safety and Security Management, DFS Deutsche Flugsicherung GmbH
- **Andrea Sack-Nirschl**, Director Safety, Security and Quality, Austro Control GmbH
- **Javier Vanegas**, Director Latin America and Caribbean Affairs, CANSO

## 11:45-12:15

### Benchmarking for Success

📍 Côté Seine, First Floor

Tracking and benchmarking safety data worldwide helps to inform key decisions and improve safety performance in the industry. This session will provide an overview of the latest Instrument Flight Rules (IFR)-IFR losses of separation (LOS) and runway incursion (RI) data – key indicators of safety performance – and give some comparative analysis across the CANSO membership. Find out about key safety trends and their implications for the industry, and take the opportunity to explore how this work is evolving and what you can do to benefit from it.

- **Bruno Ochin**, Manager Corporate Safety Performance, NAV CANADA

## 12:15-13:00

### Achieving Excellence in Safety Management Systems

📍 Côte Seine, First Floor

The EUROCONTROL/CANSO Standard of Excellence in Safety Management Systems Measurement Questionnaire is a joint initiative that allows ANSPs worldwide to measure and understand their SMS maturity against industry standards. This session will outline the benefits of improving the performance of safety management systems, and present the latest data, highlighting key achievements and opportunities for improvement. Hear from ANSPs about how this benchmarking exercise has helped them to develop their SMS and improve their safety performance.

- **Radu Cioponea**, Senior Safety Expert, EUROCONTROL
- **Hervé Forestier**, Senior Safety Performance Expert ATC, DSN and Co-Chair, Safety Performance Measurement Workgroup, CANSO

## 13:00-14:00

### Lunch

📍 Foyer Côte Seine, First Floor

## 14:00-14:45

### How to Reduce the Risk of Airspace Infringements

📍 Côte Seine, First Floor

When an aircraft makes an unauthorised entry into controlled airspace it presents a significant safety risk which often cannot be anticipated, controlled or mitigated by air traffic control. Such airspace infringements can result in serious incidents such as mid-air collision, losses of separation with commercial passenger-carrying aircraft and disruption of flight operations. Are airspace infringements a local or a global issue? What can we learn from the initiatives that have been running for a number of years? How can we achieve the desired outcome of risk reduction?

- **Stijn de Graaff**, Operational Safety Specialist, EUROCONTROL

#### 14:45-15:45

### Safety Performance Measurement: Time to Conflict Workshop

📍 Côté Seine, First Floor

How can we be more proactive in analysing the potential risk of collision in our system? Can we identify locations where we are highly dependent on human performance? How do we target potential airspace/procedural changes to increase safety? How can we effectively measure the results of those changes? What is the difference between compliance and risk?

This interactive session, utilising actual events, will engage the audience in understanding the benefit of identifying operational “hotspots” that may represent latent risk, regardless of whether or not losses of separation are currently present.

- **Mike Balder**, National Quality Assurance Manager, FAA
- **Sam Espig**, Manager Strategic Safety, NATS

#### 15:45-16:15

### Networking Break

📍 Foyer Côté Seine, First Floor



#### 16:15-17:15

### Optimised Practices: Celebrating Safety Best Practice

📍 Côté Seine, First Floor

Improving safety performance is a challenge every ANSP faces and CANSO provides the mechanisms to address this. From peer-to-peer learning and shared experience to best practice guidance, find out how you can optimise safety through your CANSO membership. For example, the CANSO Standard of Excellence in Safety Management Systems provides a benchmark and a framework for improving performance. In this session ANSPs that have reached the highest level of maturity in SMS through innovation and improvement, will share their approach and experiences of the journey to success.

- **Harvey O’Keefe**, Head of ATM Safety Management, Irish Aviation Authority

- **Paula Santos**, Safety, Quality and Surveillance Data Processing Expert, NAV Portugal
- **Roger Dillon**, Head Safety & Regulatory Compliance, NATS
- **Sam Espig**, Manager Strategic Safety, NATS
- **Claire Marrison**, Executive General Manager Safety & Assurance, Airservices Australia
- **Mihály Kurucz**, Head of Safety and Quality Division, HungaroControl Pte. Ltd. Co.
- **Andrea Sack-Nirschl**, Director Safety, Security & Quality, Austro Control GmbH
- **Job Brüggén**, Safety Officer, LVNL
- **Mike Balder**, National Quality Assurance Manager, FAA
- **Maggie Geraghty**, ATO Safety Manager, FAA

**17:15-17:30**

### **Closing of the Day**

📍 Côte Seine, First Floor

**19:00-22:00**

### **Closing Reception**

📍 Dinner Cruise on the Seine

*Please meet in the lobby of the Renaissance Paris La Defense Hotel for an 18:00 departure. Buses will depart the dinner cruise at 22:00 returning to the Renaissance Paris La Defense Hotel.*

*Dress code: Smart Casual*

Hosted by





## Thursday 07 November 2019

● **08:30-09:00**

### **Conference Registration**

📍 Foyer Côté Seine, First Floor

● **09:00-09:30**

### **Optimising Resources: Making the Most Out of the Means Available**

📍 Côté Seine, First Floor

When organisational resources are being stretched to the limit, innovative ways and new solutions will need to be found to continue to deliver robust safety services. This session will offer you the opportunity to interact with two pioneering safety managers that have been able to leverage the collective efforts of the CANSO safety community to maximise the resources available and to benefit their respective organisations.

- **Kim Nichols**, Head of Safety & Assurance, Airways New Zealand
- **Harvey O'Keefe**, Head of ATM Safety Management, Irish Aviation Authority

● **09:30-10:30**

### **What's Next? Safety Management Tools for the Future**

📍 Côté Seine, First Floor

CANSO creates safety management guidance to assist ANSPs in transitioning to increasingly automated and more efficient service delivery. This session will offer insight into how to incorporate new airspace entrants into our existing airspace, for instance drones and commercial space operations; alternative risk management and risk assessment techniques for non-traditional aircraft; and how technical innovations such as biometric data and automation can be used to leverage safety improvements.

- **Roger Dillon**, Head Safety & Regulatory Compliance, NATS and Co-Chair, Future Safety Development Workgroup, CANSO
- **Claire Marrison**, Executive General Manager Safety & Assurance, Air Services Australia and Co-Chair, Future Safety Development Workgroup, CANSO

**10:30-11:00**

### **Networking Break**

📍 Foyer Côte Seine, First Floor

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**11:00-11:30**

### **Standardising Automated Formation Flight Operations**

📍 Côte Seine, First Floor

Reducing the environmental footprint is key for our commercial aviation community. Significant technical progress has been made in developing new tools and technologies to improve the efficiency of airborne operations and reduce fuel burn, including automated formation flight operations. To standardise automated formation flight operations, long-term planning and engagement are required. This session explores the concept and explains why regulatory authorities and the industry need to actively participate in national and international discussions.

#### **Guest Speaker:**

- **Philippe Masson**, ATM and Rulemaking, Airbus EXO Alpha

**11:30-12:00**

### **Runway Safety: Meeting New Standards**

📍 Côte Seine, First Floor

Around half of the reported runway safety-related accidents are due to runway incursions, and one of the main contributing factors are weather conditions impacting aircraft braking, acceleration or controllability. To address this, ICAO has developed a harmonised methodology for assessing and reporting runway surface conditions, the Global Reporting Format (GRF), due for launch in November 2020. It's intent is to improve safety performance by enabling ANSPs to rapidly and correctly assess runway surface conditions in all climates, allowing for more accurate landing and take-off performance calculations. This session will examine the requirements and considerations of the GRF and how CANSO is working to support in effective implementation and secure key safety improvements.

#### **Guest Speaker:**

- **Paul Adamson**, Airport Operations and Interoperability Officer, ICAO



## 12:00-12:30

### **Runway Safety: The Airline Contribution**

📍 Côte Seine, First Floor

While ANSPs and airports are working hard to manage and improve runway safety, there is also an important role for airlines in analysing and mitigating risk during take-off and landing. This session will provide a look into some of the technologies available to flight crews to help mitigate the risk of wrong surface arrivals/departures and runway excursions, and what this means for the aviation partners working with airlines to provide accurate and timely information. In particular, it will consider the ANSP perspective and how the human connection can be affected by new technologies.

#### **Guest Speaker:**

- **Captain Andrew J Elbert**, Regional Base Captain, RyanAir

## 12:30-13:30

### **Lunch**

📍 Foyer Côte Seine, First Floor

## 13:30-14:00

### **Engine Performance: The Implications for ATC Operations**

📍 Côte Seine, First Floor

Engine manufacturers have limited interaction with ATC. However, engine performance and subsequent aircraft performance throughout the flight cycle and particularly in climb can be the direct cause of a change in aircraft performance, which in turn affects ATC operations. However, Engine OEMs are removed from day-to-day ATC issues and the subsequent impact of such aircraft performance changes. As such, sharing developments and understanding the implications of changes in engine performance is clearly important to both parties.

Rolls-Royce, like other engine manufactures, promotes the maximum use of climb derate and specifically, the adoption of a high altitude climb thrust taper, which leads to slower climb rates. This measure is intended to

extend engine life and save airlines money and disruption but impacts ATC operations because it has implications on FPL planning, data modelling, capacity predictions, managing different flows and ATCO techniques. This session will examine the important role of engine performance in airborne operations, and address the efficiency and safety implications of climb derate for airlines and ATC.

### **Guest Speaker:**

- **Alistair Coast-Smith**, Head of Flight Operations Support Team (CLE), Rolls Royce

● **14:00-15:00**

### **Drone Technologies to Help ANSPs**

📍 Côté Seine, First Floor

The number of drones in our skies continues to increase with data showing that the most affected part of airspace is the final approach phase. Due to the close proximity between drones and aircraft during this phase of flight, many pilots are able to describe in detail the shape, colour and size of the drones, meaning that vertical and horizontal separation was literally a few meters. This continues to be an increasing area of risk for aircraft and ANSPs, with very few options for controlling the risk. Associate members will present new technologies to help ANSPs address the growing risk of drones, thereby providing potential solutions to this ever growing threat impacting the safety community.

- **Jan van Gent**, Chief Operating Officer, Intersoft Electronics
- **Philip Binks**, Head of Air Traffic Management, Altitude Angel
- **Olivier Rea**, Digital Aviation Market Development – Europe & Africa, Thales
- **Cristiano Baldoni**, Head of CNS Meteo and ICT Security, ENAV S.p.A.

### **Facilitator:**

- **Maggie Geraghty**, ATO Safety Manager, FAA

● **15:00-15:30**

### **Networking Break**

📍 Foyer Côté Seine, First Floor

● **15:30-16:15**

### **Ask CANSO**

📍 Côté Seine, First Floor

The CANSO safety leadership team will summarise the key highlights and takeaways from the conference and outline the next steps in CANSO's mission to transform global ATM safety performance.

- **Larry Lachance**, Vice President Safety and Quality, NAV CANADA and Chair, Safety Standing Committee Steering Committee, CANSO
- **Sinéad McCloskey**, Director of Safety, Aireon LLC, and Vice Chair, Safety Standing Committee, CANSO
- **Osman Saafan**, Director Corporate Safety and Security Management, DFS Deutsche Flugsicherung GmbH
- **Maggie Geraghty**, ATO Safety Manager, FAA
- **Ibrahim Khalid**, AGM ATM Safety, Maldives Airports Company
- **Job Brüggén**, Safety Officer, LVNL
- **Heino Küster**, Head of Safety Policy & Performance, DFS Deutsche Flugsicherung GmbH
- **Tembisa Maphike**, Senior Manager Standards & Regulations, ATNS
- **Hervé Forestier**, Senior Safety Performance Expert ATC, DSNA and Co-Chair, Safety Performance Measurement Workgroup, CANSO
- **Alastair Muir**, Safety Director, NATS
- **Huw Ross**, Principal Consultant, Helios and Member, Steering Committee, CANSO
- **Amr Mokhtar Mohamed**, ATC Safety Manager, NANSC

● **16:15-16:30**

## **Closing Remarks**

📍 Côte Seine, First Floor

- **Larry Lachance**, Vice President Safety and Quality, NAV CANADA and Chair, Safety Standing Committee Steering Committee, CANSO



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# **Aviation System Block Upgrade (ASBU)**

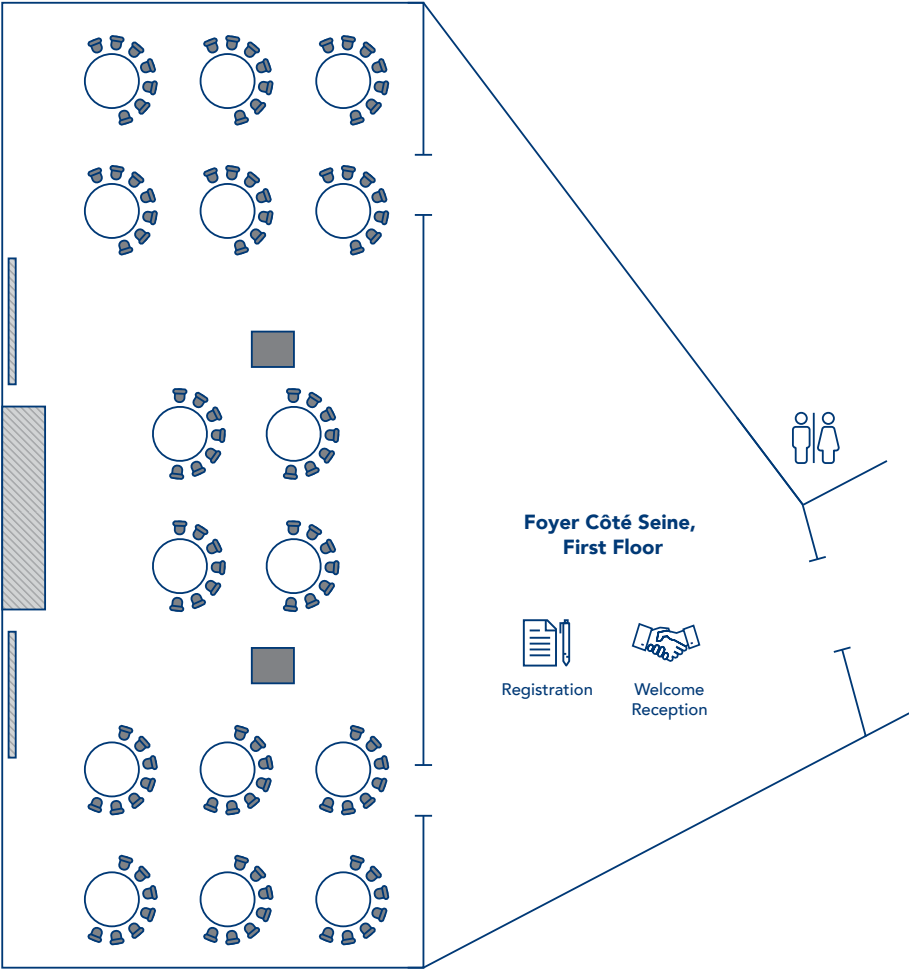
Methodology and Best Practices for ASBU Implementation



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

# Floorplan

## Côté Seine, First Floor







**CANSO Global  
ATM Summit  
and 24th AGM**

**BAKU  
2020**

**Save the Date: 9-12 June 2020**

HOSTED BY



# Sponsors

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## Networking Break Sponsor



Contact Information

service@navcanada.ca  
navcanada.ca

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Since 1996, NAV CANADA has been responsible for helping civil aircraft safely navigate the 18 million square kilometres of Canadian airspace and the North Atlantic oceanic airspace under Canada's control. One of the world's largest air navigation service providers, we oversee more than 3.3 million flights a year through a sophisticated network of area control centres, air traffic control towers, flight service stations, flight information centres and navigation aids across the country.

## Notebook Sponsor



Contact Information

info@aireon.com  
aireon.com

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Aireon is operating a space-based air traffic surveillance system for Automatic Dependent Surveillance-Broadcast (ADS-B) equipped aircraft throughout the entire globe. Aireon harnesses next-generation aviation surveillance technologies that were previously only 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 covers oceanic, polar and remote regions, as well as augments existing ground-based systems that are limited to terrestrial airspace. In partnership with leading ANSPs from around the world, like NAV CANADA, ENAV, NATS, the Irish Aviation Authority (IAA), Naviar, as well as Iridium Communications, Aireon has successfully deployed the first ever, global, space-based air traffic surveillance system.

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## Lanyard Sponsor

# THALES

### *Contact Information*

marketingatm@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.

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# 2020 MADRID

ENTER THE **ATM**OSPHERE FOR BUSINESS



## World ATM Congress 2020

A CANSO partnership with ATCA

**10 - 12 March | Madrid, Spain**

**IFEMA, Feria de Madrid**  
**[worldatmcongress.org](http://worldatmcongress.org)**

@WorldATM\_now

#WorldATM

# Forthcoming Events



## CANSO Latin America and Caribbean Conference 2019

📍 Willemstad, Curaçao

📅 18-20 November

This conference offers exciting opportunities for the advance and development of ATM in the region and beyond.

- ✓ **2.5 days**
- ✓ **100+ delegates**
- ✓ **42% ANSPs**
- ✓ **22 countries**



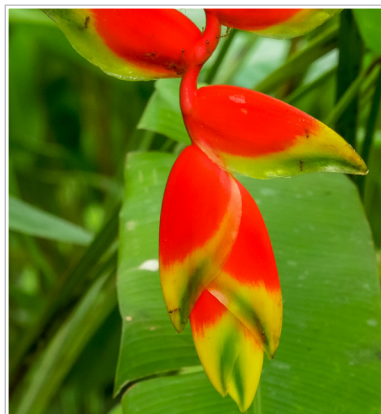
## CANSO in Madrid 2020

📍 Madrid, Spain

📅 9-12 March

CANSO brings together a number of high profile events before World ATM Congress and countless networking opportunities over the course of the entire CANSO Madrid Week.

- ✓ **4 days**
- ✓ **700 delegates**
- ✓ **74% ANSPs**
- ✓ **57 countries**



## CANSO Asia Pacific Conference 2020

📍 Port Moresby, Papua New Guinea

📅 12-15 May

Hosted in one of the world's busiest air transport regions, this is the one event in the year that unites senior ANSP executives, colleagues and suppliers from across the region.

- ✓ **2.5 days**
- ✓ **150+ delegates**
- ✓ **67% ANSPs**
- ✓ **29 countries**

# Event Contacts

## Event Contacts



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# Notes

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