



International Summit

DIGITAL TOOLSETS for **AIRLINES** and **MRO**

12 – 13 NOVEMBER 2019 | The Michelberger Hotel, Berlin

Hosted by  ETIHAD
AVIATION GROUP

Early Confirmed Airlines:



Sponsor:  LISA
THE INTELLIGENCE COMPANY



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CONFIRMED SPEAKERS AND GUESTS

BERNHARD RANDERATH

VP Design, Engineering
and Innovation
Etihad Aviation Group



ERKAN GULEC

Head of T&I
Etihad Airways



MOHAMMED SHAKIR

Digital Innovation & Research
Qatar Airways



VALENTIN LEWANDOWSKI

Predictive Maintenance Engineer
Air France Industries



PHILIPPE BORDEL

Predictive Maintenance
Commercial Director
AFI KLM E&M



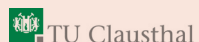
HENDRIK MEYER

German Aerospace Center (DLR)



PROF. DIETMAR MOELLER

Technical University of Clausthal



LUKAS WENDLING

Blockchain Development Manager
LISA Deutschland GmbH



HENNING BUTZ

CTO
LISA Deutschland GmbH



ALI BAGHCHEHSARA

Managing Director
LISA Deutschland GmbH



SUSANNA HALONEN-MANNER

Vice President, Emergency Response
Communications Department
Norwegian



PROFESSOR IAN JENNIONS

Director, IVHM Centre
Cranfield University



RYSZARD BOGDANOWICZ

Engineering Manager
LineTech



FRANK MARTENS

Senior Director Aviatar and Digital Products
Lufthansa Technik AG



Lufthansa Technik

ADAM DURANT

CEO
SATAVIA Ltd.

SATAVIA

OLIVER WIRTHS

Director Strategy and Business Development
Technical Fleet Management
Swiss Air



STÉPHANE DUPONT

Digital Transformation Leader
Airbus

AIRBUS

JUAN ALMEIDA

HO Cabin & Cargo Maintenance Engineering
Airbus

AIRBUS

CHRISTOPHER NIGISCHER

CEO
Blockchain Research Lab GmbH



pobeda



vueling



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Airlines work in an incredibly complex field, communicating with airports, aircraft manufacturers and MROs to deliver unrivalled passenger experiences. The **level of collaboration** required dwarfs any other industry, and we need to continuously find new ways to work together and find **new technological solutions** to tackle the highest challenges in aviation.

Our industry has been increasingly transformed by advances in **digital tools**. With the advent of **industry 4.0**, airlines have to cater to ever-changing customer demands whilst remaining cost-effective. Digital toolsets and supply chains are helping address this challenge, with initiatives from Airbus, Etihad and many other innovative companies taking the lead in **tackling airline concerns**.

Regardless of the size or type of aircraft being operated – whether a flight is international or domestic – we should all help create a **digital toolset that enables airlines to operate more effectively**. During the Digital Toolsets for Airlines and MRO summit, attendees will have a **one-of-a-kind experience**, discussing the latest developments, receiving an organic view of topics such as predictive maintenance, as well as hands-on working groups guided by experts in the field.

Together, we will prepare the **next set of standards** leading that will ensure the industry remains innovative and ground-breaking.

WHAT YOU WILL EXPERIENCE ON SITE

KEYNOTE SPEECH

Acquire in-depth knowledge and learn from industry expert, including OEMs, airlines, regulators, seat manufacturers and materials suppliers.

INTERACTIVE PANEL DISCUSSION AND AUDIENCE Q&A

Interact with our panellists, ask questions, shape the conversation and transform the industry.

INTERACTIVE WORKING GROUP

Our in-depth and hands-on working groups are designed with collaboration in mind, allowing you to discuss, brainstorm and elaborate on topics raised during the summit. Seize the opportunity to interact with colleagues and experts, discovering future solutions for long-lasting challenges.

SPEED NETWORKING

Break the ice and get to know your industry peers during our fast-paced one-to-one meetings. Greet each participant in our summit in a series of brief exchanges that will enable you to make rapid-fire connections.

EVENING DINNER

RedCabin invites you to dinner, allowing you to digest what you have learned, relax, cement new business contacts and round off your first summit day.



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MAIN TOPICS

- Predictive algorithms: changing the MRO business
- Digital manufacturing services: providing advantages in the cabin and aircraft production
- Optimising airline architectures to improve supply chains and airport digital cooperation
- How digital transformation affects the airline and MRO industry
- What could a new communication network standard look like?
- The Intelligent Data Hub
- Measures OEMs should take on cyber-security
- Digital Authentication: the future of online check-in and the governmental influence

SPONSOR



LISA Group is a start-up founded in 2014, known for digital transformation consulting and custom tailored applications. An expert in intelligent maintenance platforms, and digital transformation consulting. The company also offers End 2 End analytics tools that are built exactly according to the need of customers. For example, LISA's executive dashboard offers customer applications based on predictive analytics and advanced learning algorithms. Recently, LISA joined forces with Siemens to provide secure solutions for remote maintenance. LISA recently partnered with JetSupport to implement digital capabilities in business aviation and provide enhanced customer convenience from a mobile application.

MEDIA PARTNER



The Aviation Maintenance Magazine is the leading aviation title to cover MRO, upgrade and refurbishment on commercial, business / GA and military aircraft globally. Published in PRINT, DIGITAL (PDF) & MOBILE formats every two months, it is the world's most read MRO publication.

Aviation Maintenance Magazine has served the aircraft aftermarket for 27 years. Subscription is FREE if you are in the USA or UK / Europe. For those living in other regions, receiving the magazine in PRINT requires a fixed total postage delivery charge of € 90 to cover the 3-year subscription, which equates to € 5 an issue (18 issues in total).



For over 20 years, MRO Management has been the leading business-to-business magazine exclusively dedicated to the commercial aviation maintenance industry. Our unrivaled editorial expertise allows us to consistently provide our readers, all busy experts in their own fields, with detailed, focused and authoritative coverage. Much of this comes from the first-hand experience, gained through visiting facilities in the field, exhibitions, trade shows, and conferences. Published six times a year, MRO Management is a 'must read' for senior decision-makers at MRO providers, airlines and aircraft/engine/component manufacturers around the world, which is backed up by our BPA-audited circulation list.



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SUMMIT DAY 1 | Tuesday 12 NOVEMBER 2019

08:00 Registration

08:30 RedCabin and chairman's welcome

Professor Ian Jennions – Director, IVHM Centre,
Cranfield University

08:45 Digital Transformation: New technologies, the big picture and their impact on the future of aircraft operation

Bernhard Randerath – VP Design, Engineering and Innovation,
Etihad Aviation Group

09:15 SPEEDNETWORKING

Get in touch with your fellow attendees during fast-paced 1:1 meetings – make sure you bring a stack of business cards. The session is followed by a short break.

10:00 Coffee

10:30 Skywise: How sharing data and digitally enabled collaboration are reshaping the aviation industry

- Having easy access to integrated data is already driving a revolution in aerospace
- Making data visible, accessible, and understandable to create value for the whole aviation ecosystem
- Reflecting on our key findings and success factors a few years into our industry's digital transformation

Stéphane Dupont – Digital Transformation Leader, *Airbus*

11:00 PANEL DISCUSSION

The reality of digital transformation for airlines and MRO

Challenges, strategies and a reality check – has the introduction of digital tools fulfilled expectations from the industry?

PANELLIST: **Adam Durant** – CEO, *SATAVIA Ltd.*

Bernhard Randerath – VP Design, Engineering and Innovation,
Etihad Aviation Group

Ryszard Bogdanowicz – Engineering Manager, *LineTech*

11:30 Digital transformation and a sustainable human resources model for airlines

- How important is digital transformation to an airline?
- How could digital transformation influence airline employees?
- What is the future for airline employees in the digital era?
- Which model should we adopt to thrive?

Mohammed Shakir – Digital Innovation & Research, *Qatar Airways*

12:00 Networking Luncheon

13:30 INTERACTIVE WORKING GROUPS

Attendees will be divided into three groups, with each group alternating between three interactive sessions.



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SUMMIT DAY 1 | Tuesday 12 NOVEMBER 2019

INTERACTIVE WORKING GROUP – 1

13:30 Operator / MRO Hotspots

Digital toolsets are becoming ubiquitous but what challenges are they addressing in the Airline and MRO sectors?

This session will examine the challenges these sectors face and then how digital tools can provide (some of) the solutions. It will do this within the framework of DARTeC (Digital Aviation Research and Technology Centre), a new Centre set up at Cranfield University, and the portfolio of research Grand Challenges that have been set for it by industry.

Specifically we'll examine (some of):

1. Lean MRO
 - a. Paperless, IATA
 - b. Collision avoidance, lessons from construction
2. Ultra low maintenance
 - a. Zero unscheduled maintenance, prognostics
 - b. Reduced maintenance time and effort, robotics
 - c. Reduced scheduled maintenance, maintenance credits
3. Conscious aircraft
 - a. Certifiable
 - b. Reasoning
 - c. Resilient to cyber attack
 - d. Aircraft as an IP address

MODERATOR: **Professor Ian Jennions** – Director, IVHM Centre, Cranfield University

INTERACTIVE WORKING GROUP – 2

13:30 Cyber Security for Digital Transformation of MRO

What are fundamentals of Cyber security in digital transformation? How Transformation of MRO is depending on Cyber Security? What does that mean to MRO Operations and topics such as remote maintenance? What features and functions are still missing in order to realize a Light Aircraft Secure Industrial Aircraft Connectivity solution?

Prof. Dietmar Moeller – *Technical University of Clausthal*

INTERACTIVE WORKING GROUP – 3

13:30 Predictive Maintenance

Predicting when an airline cabin part will break is as valuable as knowing it has occurred. Digital toolsets are increasingly allowing airlines to better address problems in the cabin and efficiently solve them. This session will give you a better understanding of the value in a digital cabin ecosystem, answering:

- How can airlines, MROs, OEMs and suppliers generate value on predictive analytics?
- Which technologies are being used?
- Which regulatory barriers need to be adapted?
- Is there room for a collaborative ecosystem?

MODERATOR: **Juan Almeida** – HO Cabin & Cargo Maintenance Engineering, Airbus



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SUMMIT DAY 1 | Tuesday 12 NOVEMBER 2019

15:30 *Networking coffee break*

16:00 CONTINUING WITH WORKING GROUPS 1, 2 AND 3

17:00 Results

Each working group moderator presents the outcomes of their session.

17:30 *Evening Dinner*

END OF DAY 1





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SUMMIT DAY 2 | Wednesday 13 NOVEMBER 2019

08:30 Morning welcome and networking

08:50 Chairman's welcome

Professor Ian Jennions – Director, IVHM Centre,
Cranfield University

09:00 Predictive Maintenance concrete use cases: Prognostic by AFI KLM E&M

As an Airline-MRO, the Air France KLM group has decided to build its own Predictive Maintenance tool in order to answer both Airline and MRO expectations. Discover the way it works with a deep analysis of concrete use cases and check the main benefits of predictive maintenance from both operator and MRO standpoint.

Valentin Lewandowski – Predictive Maintenance
Engineer, Air France Industries

09:30 Aviatar

Frank Martens – Senior Director Aviatar and Digital Products,
Lufthansa Technik AG

Oliver Wirths – Director Strategy and Business Development
Technical Fleet Management, Swiss Air

10:00 Networking Break and refreshments

10:30 CleanSky II - DEMETER project results for future aircraft maintenance

- Structural Health Monitoring
- End to End

- Evaluation
- Condition Based Maintenance

Hendrik Meyer – German Aerospace Center (DLR)

11:00 Blockchain for Aviation

What really is blockchain? Can blockchain help in Digital Identity? What are the potential use cases in frame of Supply Chain? Is that complimentary to Predictive Maintenance ? How is that related to 3D printing or support automated supply chain processes? Can it be helpful to reduce costs birdstrikes?

Lukas Wendling – Blockchain Development Manager, LISA
Deutschland GmbH

Christopher Nigischer – CEO, Blockchain Research Lab GmbH

11:30 The Autonomous Cyber Security Bot (ACSB) as a Protector for Safety Critical Systems and Facilities

- The Purpose of an ACSB within Airlines & MRO
- The Features and Functions of an ACSB
- The Roadmap of ACSB to Operation, Challenges and benefits

Henning Butz – CTO, LISA Deutschland GmbH

12:00 Networking Luncheon

13:45 INTERACTIVE WORKING GROUPS

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SUMMIT DAY 2 | Wednesday 13 NOVEMBER 2019

INTERACTIVE WORKING GROUP – 1

Digitalization and crisis management

Taking care of affected people and provide accurate information are the fundamentals of handling a crisis event. Crisis situations tend to unfold rapidly especially in the in the early onset of the event. Adding the component of social media of today brings forward an additional flavor to the situation. How can airlines prepare for handling an event professionally and thus protect company brand? Can technology and digitalization as a component support the crisis management process?

MODERATOR: **Susanna Halonen-Manner** – Vice President, Emergency Response Communications Department, *Norwegian*

INTERACTIVE WORKING GROUP – 2

Future of MRO and End 2 End Predictive Maintenance Platform

- 3rd Gen Data Collector
- Building Blocks for E2E
- Predictive Algorithms & Backend
- Digital Shopfloor Management App

Ali Baghchehsara – Managing Director, *LISA Deutschland GmbH*

INTERACTIVE WORKING GROUP – 3

Predictive Maintenance in the MRO business

Now that Predictive Maintenance is part of our environment, what is the best value sharing between operators, OEM and MRO? what are the impacts in terms of organization and contracts?

MODERATOR: **Valentin Lewandowski** – Predictive Maintenance Engineer, *Air France Industries*

Philippe Bordel – Predictive Maintenance Commercial Director, *AFI KLM E&M*

15:45 *Networking coffee break*

16:15 CONTINUING WITH WORKING GROUPS 1, 2 AND 3

17:15 Results

Each working group moderator presents the outcomes of their session.

17:30 **Closing remarks by RedCabin and Summit chairman**

END OF SUMMIT



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DATE	2 DAY SUMMIT INVESTMENT
ORIGINAL INVESTMENT	2.995 € + VAT

*RedCabin offers vip tickets for airlines representatives.
Please contact Andreas.Wibowo@redcabin.de for further information.*

The delegate fee includes:

- Catering
- Access to purchased summit packages
- Summit documentation
- Evening event

HOTEL PARTNER

Michelberger Hotel | Warschauer Str. 39-40 | 10243 Berlin, Germany
www.michelbergerhotel.com. To make individual reservations, please use code REDCABIN when booking.

SUMMIT VENUE

Michelberger Hotel | Warschauer Str. 39-40 | 10243 Berlin, Germany

The Michelberger is a picturesque, independently run hotel, situated on the border of Friedrichshain and Kreuzberg. Open since 2009, the hotel offers a spirit of creativity and evolution, providing private event spaces, 132 guest rooms, a bar/café and a restaurant. Indulge in the hotel's homemade coconut water, the Fountain of Youth, as well as its house liquor, Michelberger Booze.

Reception is always ready to answer questions and help make your experience the best possible, and if you need any more info, head here: www.michelbergerhotel.com

For further information or registration please call:

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