

GLOBAL TBO SYMPOSIUM

Towards global trajectory-based operations (TBO)

AGENDA

Tuesday 4 June

4 - 6 June 2024

EUROCONTROL HQ,
Brussels or online

12:00 - 13:45: REGISTRATION AND SANDWICH LUNCH

13:45 - 14:15: **Welcome remarks** by *Iacopo Prissinotti, Director Network Management, EUROCONTROL*

Opening keynotes

- *Filip Cornelis, Director Aviation, DG MOVE, European Commission*
- *Pascal Luciani, Deputy Director, Air Navigation Bureau, ICAO*

14:15 - 15:45: **Session 1. Why TBO? What are the operational benefits?**

Presentations on operational benefits

- *Giancarlo Buono, Director Safety and Flight Operations for Europe, IATA*
- *Razvan Bucuroiu, Head of Airspace and Capacity Division, EUROCONTROL*
- *Hugues de Beco, Head of ATM Programme, Airbus*
- *Shoji Yoshida, Director General, Japan Air Navigation Service, JANS*

Panel discussion moderated by *David Batchelor, Chief External Affairs and Communications, SESAR Joint Undertaking*

- *Shoji Yoshida, Director General, Japan Air Navigation Service, JANS*
- *Simon Hocquard, Director General, CANSO*
- *Todd Citron, Chief Technology Officer, Boeing*
- *Mariagrazia La Piscopia, Executive Director, SESAR Deployment Manager*
- *Katrina Hall, Deputy Chief Operating Officer, NAS Programs and Support - Air Traffic Organisation, FAA*

15:45 - 16:15: COFFEE BREAK & TOUR OF EXHIBITS

16:15 - 16:45: **Session 2. The Global TBO Concept: What are we aiming for?**

Presentation

- *Crystal Kim, Technical Officer, Airspace Management and Optimization, ICAO*
- *Henk Hof, Head of ICAO and Concept, EUROCONTROL & Chairman of ICAO ATM RPP*

Audience Q&A

16:45 - 18:00: **Session 3. Experience from TBO research and innovation**

Introduction

- *Olivia Nunez, Head of Technology and Master Planning, SESAR Joint Undertaking*
- *Steve Bradford, Chief Scientist & Technical Advisor, Office of NextGen, FAA*

Research activities

- *SESAR JU TBO research, Peter Alty and Gérard Mavoian, SESAR TBO Project Leaders, EUROCONTROL*
- *Multi regional TBO demo, Amornrat Jirattigalachote, Policy and Strategy Management Bureau, AEROTHAI*

Audience Q&A moderated by *Sven Halle, Regional Officer, Air Navigation Systems Implementation, ICAO*

18:00 - 19:00: NETWORKING DRINK & TOUR OF EXHIBITS



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Wednesday 5 June

4 - 6 June 2024

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09:00 - 09:05: WELCOME REMARKS by Mariagrazia La Piscopia, Executive Director, SESAR Deployment Manager

09:05 - 11:00: Session 4. TBO building blocks: Enabling technologies and trajectory sharing:

Presentations

- Véronique Travers Sutter, Head of iCNS Unit, EUROCONTROL
- Heiko Teper, Head of Strategy and Technical Execution, SESAR Deployment Manager
- Hugues de Beco, Head of ATM programme, Airbus
- Sherry Yang, TBO Lead, Boeing
- Jason Rossiter, Director TBO Architecture, NAV Canada
- Davide Tomassini, Iris Project Implementation Manager, European Space Agency
- Philippe Lievin, Air Traffic Management Services, BD Director, EuMEA, Collins Aerospace

Panel discussion moderated by Paul Bosman, Head of ATM Infrastructure Division, EUROCONTROL

11:00 - 11:30: COFFEE BREAK AND TOUR OF EXHIBITS

11:30 - 12:45: Session 5. Taking TBO global

Presentations

- Magnus Molbaek, SWIM Expert, SESAR Deployment Manager
- Lucas Curns, CSS-FD and SWIM S3 Project Lead, FAA
- Bryan Jolly, Innovation/SESAR senior ATM/ANS expert, EASA
- Michael Bryan, Managing Director, Closed Loop Aviation Consulting and former Qantas Captain

Panel discussion moderated by Crystal Kim, Technical Officer, Airspace Management and Optimization, ICAO

12:45 - 14:15: LUNCH BREAK & TOUR OF EXHIBITS

14:15 - 15:15: Session 6. Progress on TBO implementation

Presentations

- Augustin Gheorghe, Senior ATM Expert, EUROCONTROL
- Enis Aksu, Pilot, Lufthansa
- Peter Hendrickx, Head of the ATM Development Unit, EUROCONTROL Maastricht UAC

Panel discussion moderated by Razvan Bucuroiu, Head of Airspace and Capacity Division, EUROCONTROL

15:15 - 15:45: COFFEE BREAK & TOUR OF EXHIBITS

15:45 - 17:00: Session 7. Regional perspectives

Presentations

- Ivan Pendatchanski, Head of the Network Management Strategy Unit & José Simón Selva, ATM Expert, EUROCONTROL
- Wei Sean Ho, Deputy Director, Civil Aviation Authority of Singapore
- Blake Cushnie, Programme Director, Service Delivery, NAV Canada

Panel discussion moderated by Coleen Hawrysko, Director, Air Traffic Organisation - International, FAA



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Thursday 6 June

4 - 6 June 2024

EUROCONTROL HQ,
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09:00 - 09:15: WELCOME REMARKS by *Iacopo Prissinotti, Director Network Management, EUROCONTROL*

09:15 - 10:00: Session 8. The benefits of TBO for the military

Presentations

- *Igor Kuren, Military ATM Expert, Civil-Military Coordination Division, EUROCONTROL*
- *Ed Wright, Executive Director, Headquarters Air Force Flight Standards Agency, USAF*

Panel discussion moderated by *Thierry Closset, Project Officer SESAR Collaborative Projects in the Single European Sky Unit, European Defence Agency*

10:00 - 10:15: Session 9. TBO roadmap and next steps (Part 1)

Presentation

- *Andreas Boschen, Executive Director, SESAR Joint Undertaking*

10:15 - 10:45: COFFEE BREAK AND TOUR OF EXHIBITS

10:45 - 11:45: Session 9. TBO roadmap and next steps (Part 2)

Panel discussion moderated by *Andreas Boschen, Executive Director, SESAR Joint Undertaking*

- *Pascal Luciani, Deputy Director, Air Navigation Bureau, ICAO*
- *Christine Berg, Deputy Director for Aviation, DG MOVE, European Commission*
- *Luc Tytgat, High Representative of the Executive Director, EASA*
- *Katrina Hall, Deputy Chief Operating Officer, NAS Programs and Support - Air Traffic Organisation, FAA*
- *Anna von Groote, Director General, EUROCAE*

11:45- 12:00: Closing remarks

- *Christine Berg, Deputy Director for Aviation, DG MOVE, European Commission*

12:00 - 14:00: NETWORKING LUNCH & TOUR OF EXHIBITS



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PROJECTS ON DISPLAY

AIRTEL ATN: EXTENDED PROJECTED PROFILE

Visit the exhibit for a live presentation on the advantages of ADS-C Extended Projected Profile information. Discover how trajectory-based operations will help the aviation industry move forward and learn how Airtel ATN can support these advancements.

Exhibitor: *Santi Ibarz, CEO of Airtel ATN.*

BOEING: MULTI-REGIONAL TBO CONCEPT VALIDATION EXERCISE

Visit the Boeing exhibit to learn about the Multi-Regional TBO concept validation exercise, a concept validation exercise that Boeing performed on board a 787 ecoDemonstrator Explorer over the Pacific in cooperation with the air navigation service providers of Japan, Singapore, Thailand and USA.

Exhibitor: *Paul McCarney, Regulatory Affairs, Europe.*

LEONARDO: NETWORK TRAJECTORY BASED OPERATIONS

The exhibit will present some highlights of a preliminary prototyping activity performed on OLDI over SWIM. It will showcase how implementation of OLDI over SWIM overcomes the limitations of point-to-point exchanges between adjacent ATSUs, and allows all interested stakeholders to constantly have the most updated trajectory, along its evolution due to traffic control and regulations.

Exhibitors: *Mariarosaria Casario, ATC Eng-Systems-Development and Integration & Antonio Strano, Software System Engineer (Leonardo).*

SESAR: SESAR3 NETWORK TBO

Join us to meet our experts and learn more about the SESAR3 Network TBO project. This project performs industrial research by designing the future services to support the TBO operations during both the flight pre-departure and flight execution phases by increasing trajectory alignment supported by machine learning technique, reducing constraints impact on the trajectory, revising trajectory during flight execution via CDM processes, and improving network trajectory prediction. This initiative involves all ATM actors at the network level.

Exhibitors: *Jean Boucquey, ATC System Expert, Mehtap Karaarslan, ATM Network Expert, Solution and Technical Lead, Hulya Kurtoglu, Project Manager (EUROCONTROL), Daniel Chiesa, Researcher (Airbus), Olivia Nunez, Head of Technology and Master Planning & Nil Agacdiken, Programme Manager (SESAR JU).*

SESAR: SESAR3 ATC-TBO

Visit the SESAR3 ATC-TBO exhibit to learn more about the SESAR3 ATC-TBO project, an initiative that performs industrial research for TBO use cases. This project aims to enhance flexibility and address uncertainties in the tactical execution phase for en-route and TMA operations. Over the 3 days, the exhibit will alternately showcase two initiatives on a single display: the ESCAPE & IDEAS platforms.

Exhibitors: *Dan Ivanescu, Project Manager, Datalink in Trajectory Based Operations, Peter Alty, ATM Programme and Project Manager, Steve Morton, ATM System Specialist, Mihail Genchev, ATC/ATM Operations Expert, and Murat Metincan, ATC/ATM Operations Expert (EUROCONTROL), Olivia Nunez, Head of Technology and Master Planning & Nil Agacdiken, Programme Manager (SESAR JU).*

THALES: PATH PRO

Visit the Thales exhibit to discover how Path Pro optimises the descent and approach (STAR/RNP) for each aircraft in an arrival sequence into a TMA. Path Pro introduces a new automation concept to reduce air traffic controller workload.

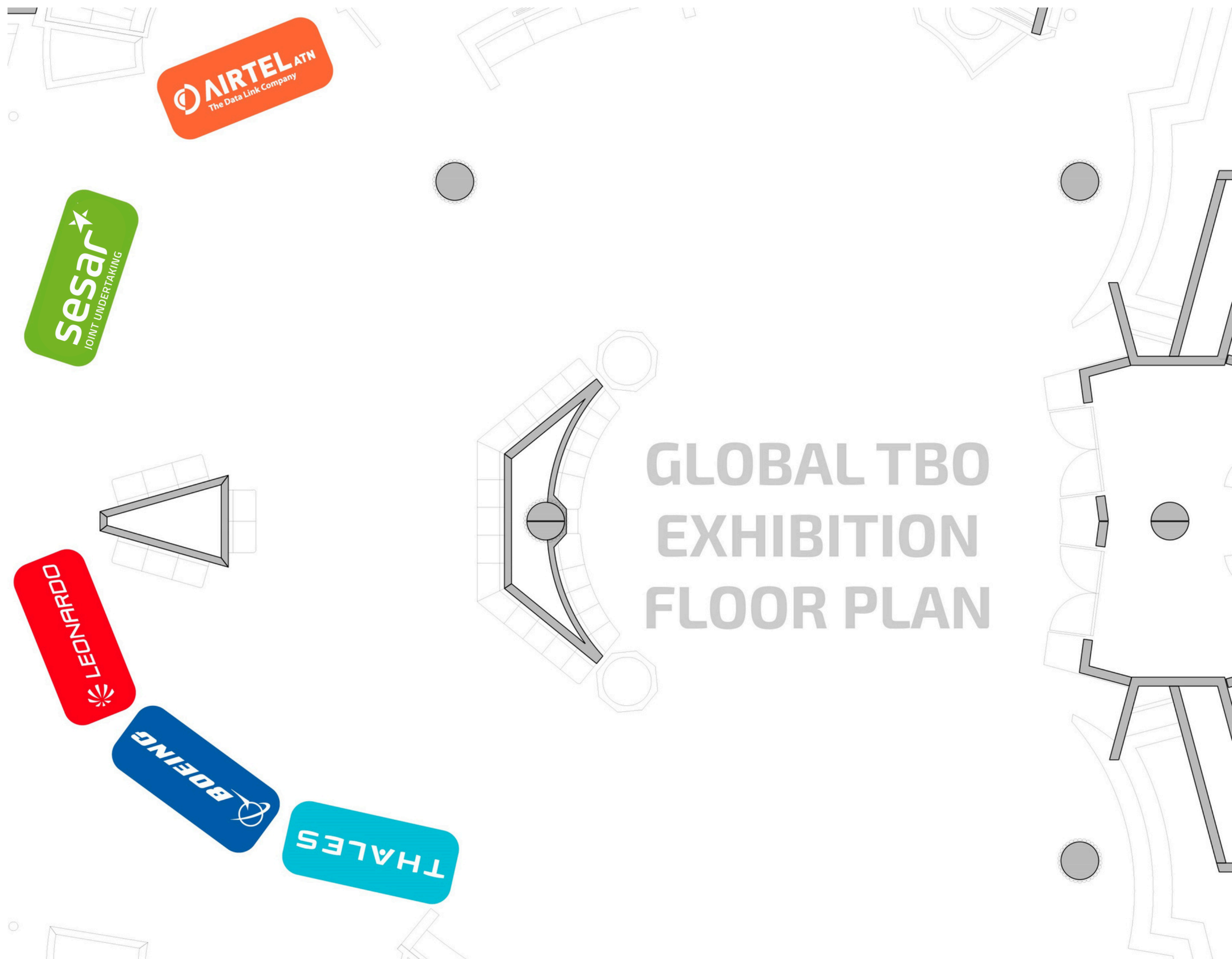
Exhibitor: *Pascal Rohault, ATC Product Line Architect / Design authority (THALES).*



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PROJECTS ON DISPLAY



TOURS OF EUROCONTROL'S NEW OPERATIONS CENTRE

For those who have signed up

4 June 2024

- 18:00 - 18:30 NMOC TOUR ORANGE
- 18:30 - 19:00 NMOC TOUR BLUE

5 June 2024

- 13:00 - 13:30 NMOC TOUR GREEN
- 17:30 - 18:00 NMOC TOUR PURPLE

6 June 2024

- 12:30 - 13:00 NMOC TOUR YELLOW
- 13:00 - 13:30 NMOC TOUR WHITE
- 13:30 - 14:00 NMOC TOUR RED

