



World ATM Congress

21-23 June 2022,

Madrid

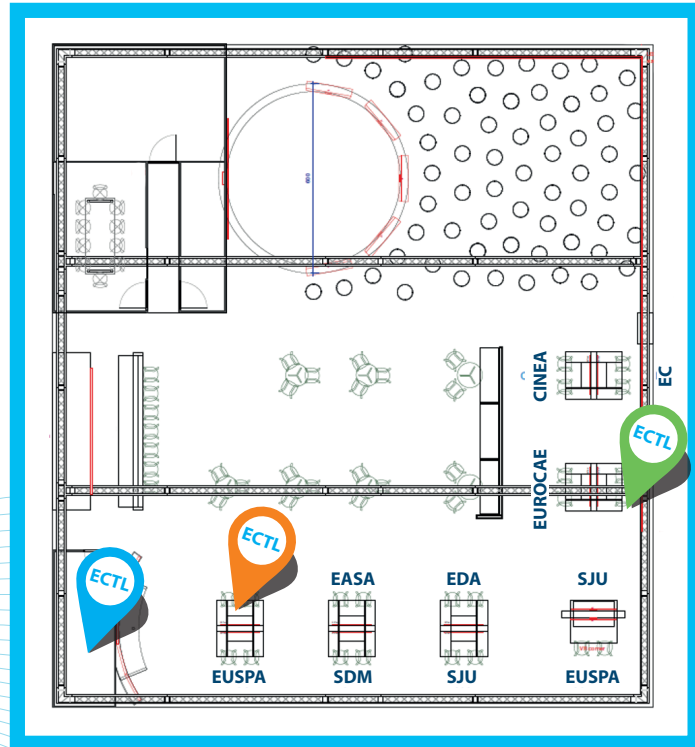
EUROCONTROL at
EUROPE FOR AVIATION
Stand



PROGRAMME

EXHIBITION FLOOR PLAN & EUROPE FOR AVIATION STAND LAYOUT

Hall 9, stand #595





DAY 1, 2 & 3



Airport runway performance optimisation demo

Test out first-hand the high-performing runway solutions that we have developed to optimise aircraft spacing buffers and separation minima on final approach, taking into account pair-wise wake vortex turbulence separation (RECAT-EU-PWS), individualised runway occupancy times (iROT) combined with reduced minimum radar separation. Solutions with enhanced approach profiles for reducing noise and increasing flight efficiency will also be showcased.

EUROCONTROL EXHIBITS

DAY 1 - TUESDAY, 21 JUNE 2022

10:00 - 12:00 Civil-Military Cooperation

10:00 - 10:30 Briefing on EUROCONTROL's civil-military cooperation activities and priorities

10:30 - 11:00 Military air mobility across Europe (FUA and iOAT Flight Plan)
by Eric Billard

11:00 - 11:30 Secure data exchange between civil and military
by Antonio Nogueras

11:30 - 12:00 Briefing on EUROCONTROL civil-military cooperation activities and priorities

10:00 - 14:00 iNM - Integrated Network Management

iNM will put in place a range of innovative digital products to maximise the efficiency, safety and sustainability of the European aviation network through a new generation of cutting-edge, resilient and scalable operational systems.

12:00 - 15:00 MUAC Customer Services

Our MUAC experts - John Smylie, Amalia García Alonso & Eric Carpentier will present the [Customer Initiative & ATM Portal](#).

14:00 - 18:00 ATM Surveillance

Join EUROCONTROL experts - Eric Potier, Petr Jonas and Laura Cartianu to learn more about the need for a reliable and efficient surveillance infrastructure in Europe and EUROCONTROL's monitoring capabilities.

15:00 - 18:00 EUROCONTROL Innovation Hub Projects

15:00 - 16:00 Briefing on the latest developments in the CORUS-XUAM project
by Giancarlo Ferrara

16:00 - 17:00 Presentation of CADENZA (Advanced capacity and demand management for European Network performance) & ISOBAR (Optimisation and AI solutions to meteo-based DCB imbalances for Network operations planning)
by Franck Ballerini

17:00 - 18:00 EUROCONTROL Air Transport Innovation Network & an overview of user-driven innovation portfolio
by Peter Choroba

DAY 2 - WEDNESDAY, 22 JUNE 2022

10:00 - 13:00 ATM Surveillance

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16:00 - 16:30 [Briefing on EUROCONTROL's civil-military cooperation activities and priorities](#)

16:30 - 17:00 [Civil-military CNS interoperability](#)
by Jorge Pereira

17:30 - 18:00 [Briefing on EUROCONTROL's civil-military cooperation activities and priorities](#)

16:00 - 18:00 EUROCONTROL Aviation Learning Centre

16:00 - 17:00 [Introducing the new brand "EUROCONTROL Aviation Learning Centre" \(ALC\)](#)
by Hendrik Dermont

17:00 - 18:00 [ALC's training services, including courses and tools](#)
by Jan Brutsaert

DAY 3 - THURSDAY, 23 JUNE 2022

10:00 - 12:00 **Civil-Military Cooperation**



10:00 - 10:30 Briefing on EUROCONTROL's civil-military cooperation activities and priorities

10:30 - 11:00 Aviation sustainability supported by flexible use of airspace
by **Michael Steinfurth**

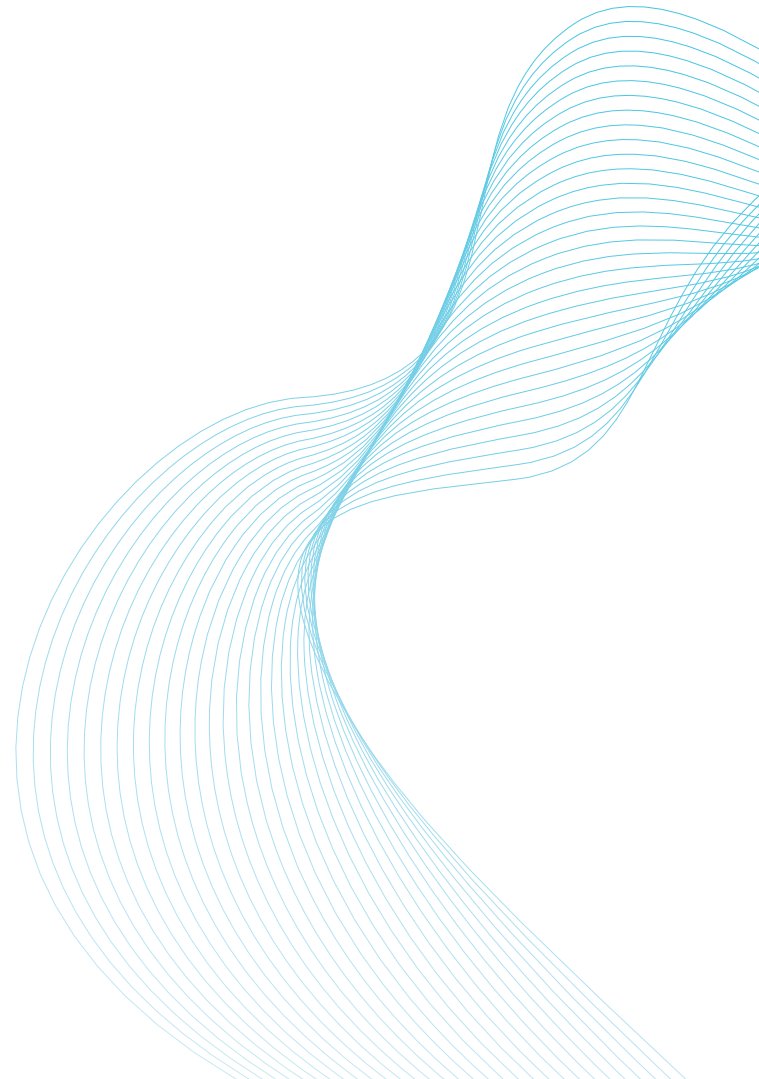
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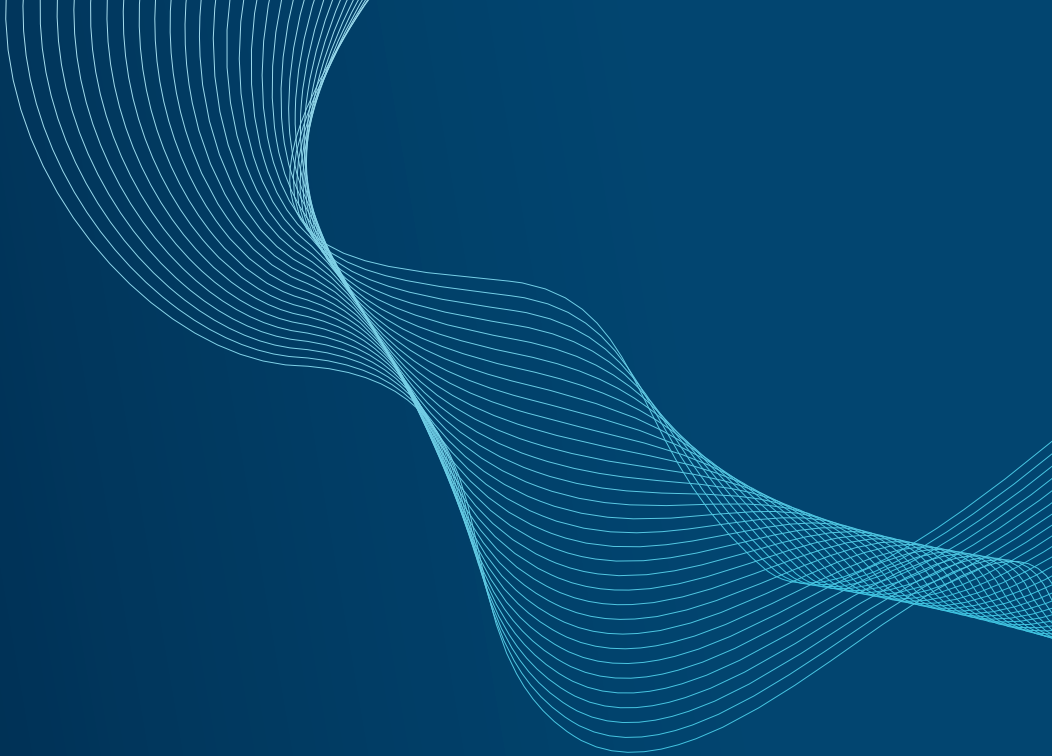
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EUROPE FOR AVIATION
THEATRE PROGRAMME

DAY 1 - TUESDAY, 21 JUNE 2022

10:15 - 10:45

UAS – A booster for synergies between civil, defence and space industries

Unmanned Aircraft Systems (UAS) have been actively used in the defence sector over the last 30 years, mainly using US and Israeli platforms. The emergence of new types of platforms, from micro UAS to High Altitude Pseudo Satellites (HAPS), as well as the current development of Medium Altitude Long Endurance (MALE) Remotely Piloted Aircraft Systems (RPAS) by four European nations, offer an opportunity to foster sustainable and smart mobility, improve the competitiveness of European industry and strengthen Europe's strategic autonomy in this key technical domain. This also represents an excellent opportunity for civil-military cooperation since many of the technological building blocks building up these systems, such as Detect and Avoid, autonomy, datalinks, electrooptical sensors and other payloads are paradigmatic cases of dual-use enabling technologies, which ideally should also have European origin.

This panel will discuss the role of military UAS as a trigger for the development, standardisation and regulation of key dual-use enabling technologies in Europe.

Moderator:

Juan Ignacio del Valle, Project Officer UAS Programmes, EDA

Speakers:

Christophe Vivier, Head of the SES Unit, EDA

Nicolas Eertmans, Policy Officer, Aviation Safety, DG MOVE, European Commission

Olivier Reichert, Director Innovation Programme, SAFRAN

Robin Garrity, Senior External Affairs Officer, SESAR 3 Joint Undertaking

11:00 - 11:45

Towards greener and more resilient ATM in Europe

As part of the European Green Deal, the EU has set the target of achieving climate neutrality by 2050 with the ambition to cut greenhouse gas emissions by at least 55% by 2030. What is the current situation? How can we accelerate the shift towards a sustainable and smart mobility while ensuring a resilient air transport for Europe? And how can ATM contribute to this transition?

Moderator:

Christine Berg, Deputy Director Aviation, DG MOVE, European Commission

Speakers:

Filip Cornelis, Director for Aviation, DG MOVE, European Commission

Mariagrazia La Piscopia, Executive Director, SESAR Deployment Manager

Andreas Boschen, incoming Executive Director, SESAR 3 Joint Undertaking

Regula Dettling-Ott, Chair of the Performance Review Body

Marylin Bastin, Head of Aviation Sustainability, EUROCONTROL

12:00 - 12:30

Preparing the European aviation network to cope with summer traffic & the latest on the new NM Operations Centre

This session will provide an overview of the traffic in the network for the summer ahead, and the progress to completing the new Network Manager Operations Centre. Airports, crises and the tips and tricks for getting the best out of the European ATM network will all be here.

Speaker:

Steven Moore, Head ATM Network Operations Division, EUROCONTROL

12:45 - 13:15

Civil-Military ATM/ANS cooperation in a changing European security environment

The Russian attack on Ukraine shows that armed conflicts are still possible threats, requiring joint military and civil efforts. This new political situation in Europe requires changes in civil-military cooperation and calls for a shift towards security and defence needs to ensure that national air forces can deploy assets across Europe in all-weather conditions at short notice. This is key if we want to establish and maintain a military readiness posture for deterrence and defence in Europe.

The panel members will be asked to share their perspectives on the potential impacts of a changing European security environment on civil-military ATM/ANS cooperation.

Moderator:

Michael Steinfurth, Special Advisor to the Head of Civil-Military Coordination, EUROCONTROL

Speakers:

LtGen Ignacio Bengoechea Martí, Deputy Chief of Staff, Spanish Air Force

MajGen Manuel Gimeno Aranguéz, Director Civil-Military Coordination, ENAIRE

Giorgio Cioni, Director Armament & Aerospace Capabilities, NATO

Emilio Fajardo, Director Industry, Synergies & Enablers, EDA

MajGen Karsten Stoye, Head of Civil-Military Cooperation, EUROCONTROL

13:30 - 14:00

What's new with SESAR?

The SESAR vision aims to deliver a resilient and fully scalable ATM system capable of handling growing air traffic made up of a diverse range of manned and unmanned air vehicles in all classes of airspace, in a safe, secure, sustainable manner. How do we get there? What are the new EU instruments and incentives available to reinforce the whole SESAR innovation lifecycle?

Speakers:

Christine Berg, Deputy Director Aviation, DG MOVE, European Commission

Andreas Boschen, incoming Executive Director, SESAR 3 Joint Undertaking

Mariagrazia La Piscopia, Executive Director, SESAR Deployment Manager

14:15 - 15:00 **Artificial Intelligence - the European ATM approach**

Artificial intelligence is being deployed in all industrial sectors. The purpose of this session is to show how European civil and military ATM bodies, in a collaborative effort under the FLY AI initiative, are working towards its broad and rapid uptake to ensure the delivery of its impressive benefits.

Moderator:

Paul Bosman, Head of ATM Infrastructure Division, EUROCONTROL

Speakers:

Marouan Chida, Head of Innovation and Market Uptake, SESAR 3 Joint Undertaking

Juan Ignacio del Valle, Project Officer UAS Programmes, EDA

Andrew Taylor, Chief Solutions Officer, NATS

15:15 - 16:15 **Towards U-space implementation**

The implementation of the U-space regulatory package is around the corner. 26 January 2023 is approaching fast and all stakeholders are preparing to ensure that they are in compliance with the regulation. Important aspects of the regulation are establishment of the U-space airspace as well as the USSPs and CISP certification.

The panel will discuss best practice around these two topics. EASA has already published its Acceptance Means of Compliance and Guidance Material (AMC/GM) and is reviewing the comments. In addition, the Agency is taking proactive steps to support Member States and stakeholders in implementation. The panel will also discuss these initiatives and further initiative needs.

Moderator:

Filip Cornelis, Director Aviation, DG MOVE, European Commission

Speakers:

Maria Ruiz Algar, Drone Programme Manager, EASA

Marina Estal Muñoz, Head of Airspace Policy Area, in charge of U-space implementation in Spain, DGCA

Cristiano Baldoni, COO, D-Flight

Hendrik-Jan Van Der Gucht, Managing Director, Skydrone

Sebastian Babiarz, COO, Dronehub

16:30 - 17:00

Single European Sky interoperability: new ATM conformity assessment framework for ground equipment

EASA has to elaborate a proposal for a new conformity assessment framework for ATM/ANS ground equipment as the requirements of the SES interoperability regulation will cease to apply by September 2023. The new framework should facilitate and promote a more dynamic provision of ATM/ANS and increase interoperability of systems and their constituents. Representatives from industry and authorities advising EASA on this task will provide a snapshot on current problems, challenges and opportunities of such a new conformity assessment framework.

Speakers:

Patrick Ky, Executive Director, EASA

Alex Bristol, CEO, Skyguide

Ignacio Mataix, CEO, Indra

Christian Rivierre, VP, Airspace Mobility Solutions, Thales

Massimo Garbini, Managing Director, Frequentis

Arndt Schoenemann, CEO, DFS

Angel Luis Arias Serrano, CEO, ENAIRE

Peter Kearney, CEO, Irish Aviation Authority

Piotr Samson, President, Civil Aviation Authority of Poland

Christine Berg, Deputy Director Aviation, DG MOVE, European Commission

17:00 - 18:00

OFFICIAL STAND OPENING & RECEPTION

DAY 2 - WEDNESDAY, 22 JUNE 2022

10:00 - 11:00 **Space and ATM**

Space services and data are supporting the transformation of Air Traffic Management (ATM), and continuously evolving to meet new needs related to Communication, Navigation and Surveillance. Space has been used for more than 50 years in air navigation, and the deployment of space augmentation systems, like EGNOS, is bringing Cat I to all airports with minimum investment. EGNOS is evolving to dual frequency multi-constellation, and Galileo has been baselined for use in aeronautical navigation by ICAO. Moreover, space-based ADS-B is gaining momentum and new space services are underway to support aviation communication needs.

This panel will discuss the role of space in ATM, from research and development to deployment, discuss the service provider and user view on the latest developments and look ahead in view of safer, more resilient and sustainable air transport relying on space.

Moderator:

Carmen Aguilera, Head of Mobility & Operational Market Development, EUSPA

Speakers:

Dragos Tonea, Manager iNEO, EUROCONTROL

Ruben Flohr, ATM Expert, Architecture & Systems Engineering, SESAR 3 Joint Undertaking

Cristian Pradera, ATM Modernisation Planning Coordinator, SESAR Deployment Manager

11:15 - 11:45

iNM digital transformation

EUROCONTROL has embarked on a digital transformation journey to replace its core legacy systems which have successfully ensured flow and network management for over 25 years. Known as iNM – the integrated Network Management Programme will put in place a range of innovative digital products enabling EUROCONTROL to maximise the efficiency, safety and sustainability of the European aviation network through a new generation of cutting-edge, resilient and scalable operational systems.

The ten-year iNM programme envisages by 2030 the incremental renewal of all the Network Manager's main operational systems, resulting in a new digital architecture that will harness the power of innovation and enable NM to deliver ever more integrated business services and products to its stakeholders.

Speaker:

Tony Licu, Head of Operational Safety, NMD SQS and Integrated Risk, EUROCONTROL

12:00 - 12:30

CNS Strategy

The CNS Advisory Group, comprising experts from across the European ATM community, delivered a draft report with 12 recommendations and an action plan to ensure the best possible organisation, management and implementation of a CNS infrastructure based on past experiences. After a short overview of the report, the panel will exchange views on the main recommendations and actions to progress towards a stakeholders' endorsement.

Moderator:

Filip Cornelis, Director Aviation, DG MOVE, European Commission

Speakers:

Christine Berg, Deputy Director Aviation, DG MOVE, European Commission

Giancarlo Buono, Director Safety and Flight Operations for Europe, IATA

Eduardo Garcia, Manager European ATM Coordination and Safety, CANSO

Luc Laveyne, Senior Advisor, ACI EUROPE

Emilio Farjardo, Director Industry, Synergies and Enablers, EDA

12:50 - 13:15

LAUNCH OF THE NEW SDM PARTNERSHIP

13:15 - 14:00

RECEPTION



14:00 - 14:45

Accelerating market uptake and deployment

The modernisation of Europe's ATM is entering a new phase with the establishment of the new SESAR 3 Joint Undertaking public-private partnership and the new SESAR Deployment Manager, in which EUROCONTROL Network Manager is taking on the role of consortium coordinator. The SESAR 3 JU has an explicit regulatory objective to develop and accelerate the market uptake of innovative solutions to establish the Single European Sky airspace as the most efficient and environmentally friendly sky to fly in the world.

This session will explore how the Europe for Aviation partners are working together to meet this objective, focusing on SESAR solutions that can be implemented rapidly and that can bring environmental benefits in the short to medium term. The panellists will also explore solutions that allow for a more flexible and resilient infrastructure that is capable of withstanding unpredictable shocks like COVID-19 and will explain how close cooperation with regulatory and standardisation bodies, notably EASA and EUROCAE, are key to accelerating the market uptake and deployment of such solutions.

Moderator:

Paul Bosman, Head of ATM Infrastructure Division, EUROCONTROL

Speakers:

Marco De Sciscio, Principal Administrator & SESAR Team Leader, DG MOVE, European Commission

Marouan Chida, Head of Innovation and Market Uptake, SESAR 3 Joint Undertaking

Cristian Pradera, ATM Modernisation Planning Coordinator, SESAR Deployment Manager

Anna von Groote, Director General, EUROCAE

Manuel Rivas Vila, ATM Oversight Section Manager, EASA

15:00 - 15:45

Higher airspace operations

This panel will discuss ATM aspects of Higher Airspace Operations (HAO) and will allow for discussion on HAO from a number of different stakeholder perspectives. Short introductory presentations will be followed by a discussion which will enable the audience to understand the impact of Higher Airspace Operations from multiple perspectives.

Moderator:

Robin Garrity, Senior External Affairs Officer, SESAR 3 Joint Undertaking

Speakers:

Dragos Tonea, iNEO Manager, EUROCONTROL

Paul Mansfield, Future Approvals Manager, Zephyr Programme, Airbus Defence and Space

Paul Cremin, Head of Commercial Space, UK Department for Transport

Vicente de Frutos Cristóbal, SESAR Project Officer, EDA

16:00 - 16:30

ATM digitalisation through SWIM deployment

CP1 Regulation sets expectations for the deployment of SWIM in support of business operational improvements. Stakeholders need to understand how to deploy this technology modernisation enabler while bringing benefits to their organisation.

Speakers:

Magnus Molbaek, AF5 SWIM Expert, SESAR Deployment Manager

Pedro Fernandez Sancho, Information Management Expert, EUROCONTROL

16:45 - 17:15

Virtual centres

This session will look at the rapidly evolving context of the Virtual Centre concept and efforts for Virtual Centres services standardisation. It will look specifically at the status of research & development activities, industrialisation and stakeholder needs, recent first achievements as well as the next steps towards a performance-based approach to the Virtual Centres services standardisation.

Speakers:

Anna von Groote, Director General, EUROCAE

Olivia Nunez, ATM Expert, SESAR 3 JU

Nicolás Suárez Tetzlaff, Chair of EUROCAE's WG-122, ENAIRE

Ben Stanley, EUROCAE's WG-122 Secretary, Egis Aviation

17:30 - 18:00

Space for UAS

UAS are increasingly dependent on robust navigation and position information, as well as precise planning of their missions, in order to ensure the safety of their operations. This session will explore how Space services and data support UAS operations, implementation of U-space and pave the way for Urban air mobility. The speakers will discuss the role of EU navigation systems, Galileo and EGNOS, and Earth Observation, Copernicus. They will provide an outlook of the roadmap, actions and opportunities to integrate EGNOS/Galileo in U-Space, propose answers based on Space to the increasing needs for safe navigation and integrity tailored to the particularities to UAS, and introduce the role of Earth Observation to support flight planning and risk assessment.

Moderator:

Carmen Aguilera, Head of Mobility and Operational Market Development, EUSPA

Speakers:

Miguel Aguilera, EGNSS Aviation Advisor, DG DEFIS, European Commission

Pablo Haro, Space Aviation and UAS Advisor, EUSPA

Pawel Korzec, CEO, Droneradar

DAY 2 - WEDNESDAY, 22 JUNE 2022

WING ATM Theatre

12:25 & 13:25 **Civil-Military ATM/ANS Cooperation in a changing European Security Environment**

The Russian attack on Ukraine shows that armed conflicts are still a possible threat to our freedom and democratic values, requiring joint military and civil efforts.

This new political situation in Europe will require adaptations in areas related to civil-military cooperation.

Therefore, balanced considerations between commercial aviation and security and defence must shift more weight towards security and defence needs to ensure that national air forces can deploy assets throughout Europe in all-weather conditions on short notice, which is paramount to establish and maintain a military readiness posture for deterrence and defence of Europe.

It must be ensured that the military can execute all aspects of their aerial missions, while at the same time civil flight efficiency and sustainability are enhanced.

EUROCONTROL speakers:

Karsten Stoye, Antonio Nogueras, Eric Billard and Jorge Pereira



DAY 3 - THURSDAY, 23 JUNE 2022

10:15 - 10:45

Mitigating the climate impact of non-CO₂ emissions. MUAC/DLR contrail prevention trial: first results and way ahead

This presentation will focus on the results of the first worldwide live operational trial on contrail prevention aimed at mitigating non-CO₂ emissions which was carried out in 2021 by EUROCONTROL's Maastricht Upper Area Control Centre (MUAC), in partnership with the German Aerospace Centre (DLR).

With two-thirds of the impact of aviation on climate change believed to come from aircraft non-CO₂ emissions, contrail prevention has a key role to play in curbing global warming. In total, 209 aircraft trajectories were included in the trial over 10 months.

The MUAC/DLR trial on contrail prevention is one contributor and component in a much wider picture of mitigating climate change. It is an important milestone from theory to practice and a stepping stone from science to engineering. Scientists and ATM managers will share the results in a bid to spark decisions for the future of aviation. The way-ahead in contrail prevention will be explained.

Speakers:

Ilona Sitova, ATC Environmental Performance Specialist, Maastricht Upper Area Control Centre, EUROCONTROL
Professor Dr. Robert Sausen, Coordinator of the German project D-KULT

11:00 - 11:30

Initial TBO deployment with ADS-C

This presentation will focus on the preparatory steps supporting the deployment of initial trajectory sharing as described by the CP1 regulation (AF6). EUROCONTROL and SDM have teamed up to lead the Operational Excellence Programme on ATS B2 to ensure the timely availability of complementary specifications on ADS-C/EPP data receipt and distribution for CP1 AF6. The presentation will also provide an outlook of where the community sees the extended use of ATS B2 datalink services in the context of TBO.

Speakers:

Eivan Cerasi, Deputy Head of Standardisation, EUROCONTROL
Cristian Pradera, ATM Modernisation Planning Coordinator, SESAR Deployment Manager

UAM PANELS

Where: Civil UAVs Initiative theatre, IFEMA Congress centre

Moderator: Munish Khurana, Senior Manager Business Development, EUROCONTROL

PANEL 1

STATE OF UAM
IN USA & EUROPE

21 June, 14:00 - 14:55

Speakers:

Parimal Kopardekar, Director Aeronautics Research Institute, NASA

Rob Weaver, Regulation and Public Policy Global Lead, Eve Air Mobility

Tim Arel, (Acting) Chief Operating Officer, Air Traffic Organization (ATO), FAA

Maria Algar Ruiz, Programme Manager Drones, EASA

Miguel Villaplana, Head of UTM, Airbus

David Bachelor, Chief Strategy and International relations Office, SJU

PANEL 2

EU DRONE STRATEGY 2.0:
STATE OF PLAY

22 June 2022, 14:30 - 15:15

Speakers:

Nicolas Eertmans, Policy Officer, Aviation Safety, DG MOVE, European Commission

Olivier Reichert, Director of Programme Innovation, Safran

Saskia Horsch, Global Head of Government Relations & Public Affairs, Lillium

Koen De Vos, Secretary General, GUTMA

PANEL 3

FINANCING SUSTAINABLE UAM SOLUTIONS

23 Jun 2022, 10:30 - 11:25

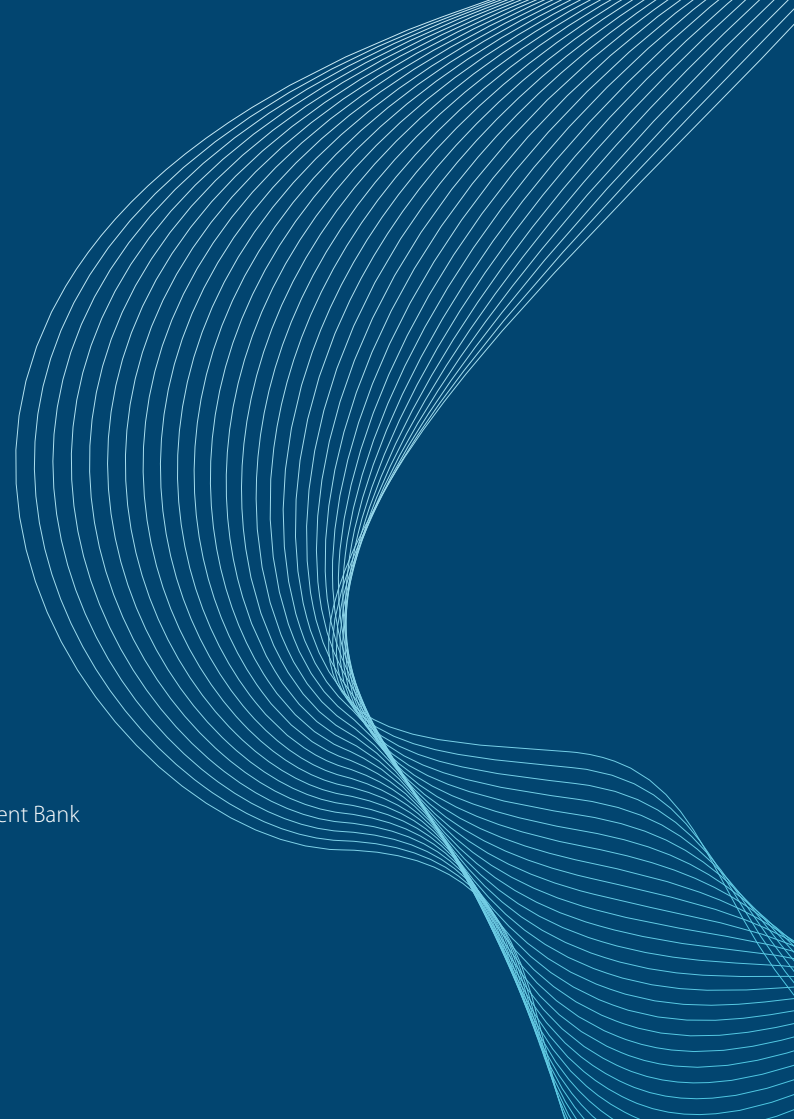
Speakers:

Khalid Naqib, Senior Investment Officer, Venture Debt, European Investment Bank

Ricardo Fernandez, Senior Partner at One to One Corporate Finance

Ricky Sandhu, Founder and Executive Chairman, Urban-Air Port Ltd

Fernando Castillo, CEO, Novaltia





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