

## 7-9 MARCH 2017 SESAR EXCHANGE THEATRE (#889)

The SESAR stand and theatre will feature a wide variety of sessions, which will illustrate with concrete examples how SESAR works with ATM partners. The featured activities will demonstrate the benefits that this coordinated approach are bringing to airspace users and passengers, and the overall European economy.

*No registration required, however due to limited seating space (max 70), participants will be provided seats on a first-come, first-served basis.*

### Tuesday 7 March

- 10:30 – 11:00** Official opening of the SESAR stand by European Commissioner for Transport, Violeta Bulc
- 11:00 – 12:00** Setting the scene: partnering for excellence in global aviation
- 12:15 – 13:30** SESAR 2020
- 13:45 – 15:00** Towards global interoperability
- 16:00 – 17:00** Single European Sky (SES) Awards ceremony
- 17:00 – 18:00** SES Awards networking drink

### Wednesday 8 March

- 10:30 – 11:30** Information sharing
- 11:45 – 12:45** SESAR Deployment
- 13:00 – 13:45** Advanced flexible use of airspace and free routing
- 13:45 – 14:30** Cooperative traffic management
- 14:45 – 16:00** Integration of all vehicles
- 16:15 – 17:15** CNS/avionics: challenges and priorities
- 17:30 – 18:15** Standardisation: connecting development, deployment and regulation
- 18:15 – 19:15** SESAR networking drink

### Thursday 9 March

- 10:30 – 11:15** Automation
- 11:30 – 12:30** Exploring future solutions
- 12:45 – 13:30** SESAR calls

## SESAR EXCHANGE THEATRE – SESSION DESCRIPTIONS

### Tuesday 7 March 2017

#### 10:30 – 11:00 OFFICIAL OPENING OF THE SESAR STAND

European Commissioner for Transport, Violeta Bulc, will officially open the stand with SESAR and partners. She will reflect on the importance of the SESAR project and global collaboration for meeting the challenges outlined in the EU Aviation Strategy.

#### 11:00 – 12:00 SETTING THE SCENE: PARTNERING FOR EXCELLENCE IN AVIATION

SESAR and its support of the SES is recognised in the EU Aviation Strategy as key to boosting Europe's economy and securing its leading role in international aviation. In this respect, the successful delivery and implementation of new globally interoperable and innovative solutions by SESAR relies on strong collaboration between all aviation stakeholders and the different mechanisms and bodies of the SES. This session will hear from SESAR partners on how they practically contribute to achieving excellence in global aviation.

#### 12:15 – 13:30 SESAR 2020

SESAR 2020 is an innovative programme for researching the future of air traffic management. Building on the results of its predecessor (SESAR 1), SESAR 2020 brings together the entire ATM community to develop and deliver solutions that will increase the performance of aviation across Europe and beyond. This panel session will hear from SESAR 2020 members on their expectations for the programme, priority areas that will be addressed and how the programme can answer the needs of the end-customers, both airspace users and passengers. The session will also discuss how SESAR 2020 will deliver an innovation pipeline, with ideas flowing out of exploratory research into the industry and demonstration activities.

#### 13:45 – 15:00 TOWARDS GLOBAL INTEROPERABILITY

Ensuring that new ATM systems around the world are harmonised and interoperable is essential if the full benefits of ATM modernisation are to be realised to the benefit of airspace users and the travelling public. This session will take stock of the progress being made and discuss the key opportunities and challenges in moving our collected efforts towards achieving globally interoperable and harmonised ATM modernisation solutions. It will be set in the context of the international dimension of the EU's aviation strategy.

#### 16:00 – 17:00 SINGLE EUROPEAN SKY (SES) AWARDS CEREMONY

The European Commission Directorate-General for Mobility and Transport (DG MOVE) aims to reward, encourage and give visibility to those who implement components of the SES or who contribute to the SES performance objectives. The Awards serve both to inspire others to carry out SES implementation initiatives and to raise public awareness. Presided over by Henrik Hololei, Director General, DG MOVE, the ceremony will announce the winners of the 2017 awards and will be an opportunity to hear about the strategic importance of the SES in building a sustainable future for Europe's air transport.

#### 17:00 – 18:00 SES AWARDS NETWORKING DRINK

### Tuesday 7 March 13:00 - 14:30

#### DATALINK SERVICES RECOVERY PLAN (ATM Theatre)

High-quality data communications capabilities in the form of the datalink technology are essential enablers for the modernisation of air traffic control and to achieve SESAR performance benefits. The current implementation did not provide the expected results and some studies were conducted to investigate the issues, the last and most relevant is the so-called ELSA study performed under SESAR JU coordination. On the basis of the ELSA study, the SESAR DM developed the DP 2016 DLS Deployment Strategy and the DLS Recovery Plan: a fully consulted roadmap, published on DG MOVE website, guiding content and timewise the full and effective DLS deployment in Europe. In addition, on 18 November the SESAR Deployment Manager received by the European Commission the mandate as Data Link Services Implementation project manager and is now running at full speed to implement all the actions described in DP 2016.

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**Wednesday 8 March 2017****10:30 – 11:30 INFORMATION SHARING**

SWIM represents a seismic shift in how information management is done in ATM, moving away from custom-built point-to-point systems to solutions that support system-wide interoperability, information access and exchange. SWIM consists of standards, infrastructure and governance enabling the management of ATM related information and its exchange between qualified parties via interoperable services. This session will touch on SWIM services developed in SESAR 1, cover current deployment, governance and standardisation activities, as well as further SESAR 2020 research on the air-ground datalink. A link will also be made with the European cyber security approach.

**11:45 – 12:45 SESAR DEPLOYMENT**

SESAR is a reality today, bringing benefits to EU passengers. Over 26 ATM modernisation projects are already implemented and hundreds are being coordinated all over Europe. The updated Deployment Programme sets out the guidelines on what has to be implemented where, why and by when to reach the goals of the SES. Involving all aviation stakeholders is key.

**13:00 – 13:45 ADVANCED FLEXIBLE USE OF AIRSPACE AND FREE ROUTING**

Free routing aims to provide flight efficiency benefits in terms of improved operational efficiency as well as reduced fuel burn and emissions. It aims to deliver optimised trajectories to airspace users, thereby reducing track miles which can lead to reduced fuel consumption and cost. Key themes for the session include: promoting a close collaboration between the different ATM actors; enhanced civil/military cooperation; and dynamic airspace management. The session will touch on important SESAR 1 and SESAR 2020 developments like flexible use of airspace, free route in low and high density operations.

**13:45 – 14:30 COOPERATIVE TRAFFIC MANAGEMENT**

Cooperative traffic management aims to provide flight efficiency benefits in terms of reduced fuel burn and emissions. It aims to smooth out randomised traffic peaks, thus alleviating the demand on peak resources, which can lead indirectly to reduced costs. Key themes for the session include: promoting a close collaboration between the different ATM actors; using local knowledge to the benefit of local and network operations; and maximising the use of fine-tuned, targeted measures as an alternative to broader, more penalising regulations. The session will touch on important SESAR 1 and SESAR 2020 developments like airport operations plan - network operations plan (AOP-NOP) integration, target-time management, arrival management, short-term air traffic flow control management (ATFCM) measures and the user-driven prioritisation process.

**14:45 – 16:00 INTEGRATION OF ALL VEHICLES**

The session will demonstrate how SESAR 2020 now encompasses all vehicle types in the programme as important airspace-user stakeholders, from the big to the very small. In this session, which comes from an operational standpoint, speakers will demonstrate the all-inclusive nature of the new programme, showing how airspace users inside and outside controlled airspace will benefit, as well as how ANSPs can improve safety inside controlled airspace by knowing more about what is going on outside. Following a keynote speech by Matthew Baldwin, Deputy Director-General of DG MOVE, speakers will represent business aviation, rotorcraft operators, military agencies, general aviation and the new and growing drone stakeholder group, which may challenge our viewpoint about how airspace is managed. The aviation world is changing, and SESAR 2020 will ensure that all stakeholder groups can benefit, and operate together safely and efficiently.

**16:15 – 17:15 CNS AND AVIONICS: CHALLENGES AND PRIORITIES**

The SES is fostering changes to the aviation infrastructure including moving towards rationalisation, cost reduction and more efficiency. In support of this vision, SESAR is defining the future CNS environment and the level of ambition for the European ATM Master Plan. Key themes of the session include a comprehensive description of communications, navigation and surveillance (CNS), Spectrum and Avionics Strategy, views from involved stakeholders: regulators, ANSPs, military, Airframers, and a briefing on key SESAR 1 and SESAR 2020 developments (e.g. initial 4D (i4D) trajectory management, L-band digital aeronautical communication system (LDACS), etc).

**17:30 – 18:15 STANDARDISATION: CONNECTING DEVELOPMENT, DEPLOYMENT & REGULATION**

*Followed by a networking drink*

Building an efficient, sustainable and safe SES requires the modernisation of the European ATM infrastructure. To ensure a coordinated and harmonised implementation of the required ATM-related functionalities, it is essential to ensure that the necessary standards are available in a timely fashion. The European ATM Standards Coordination Group (EASCG) has become an essential platform building the bridge between R&D and deployment by coordinating standardisation and regulatory activities throughout the development process.

**Thursday 09 March 2016****10:30 – 11:15 AUTOMATION**

The European ATM Master Plan recognises human actors are integral to the overall ATM system, and the most critical source to its performance, safety and resilience. This session will demonstrate how advances in automation support will allow air traffic controllers to be more productive and deliver a better service to airspace users by reducing their participation in routine tasks, being thus allowed to concentrate on tasks that require higher cognitive skills.

**11:30 – 12:30 EXPLORING FUTURE SOLUTIONS**

SESAR exploratory research drives the development and evolution of the next generation of innovative ideas, concepts and technologies that define the performance of the future European ATM system, and contribute to its successful evolution. The SESAR programme portfolio includes specific projects devoted to such exploration of new operational and technological approaches. Based on the example of three very different SESAR exploratory projects, this session aims at showing how such projects pave the way for future SESAR solutions, by moving R&D activities through the first level of maturity.

**12:45 – 13:30 SESAR CALLS**

In order to support the timely and efficient implementation of the SES, a number of calls for projects have or are being launched within the framework of EU funding mechanisms and SESAR with the intention to financially support a wide variety of ATM modernisation projects in Europe. Get the latest on what has been invested so far and has resulted in concrete benefits for EU aviation and what is planned as future investments. Discover how these investments are managed and what the different funding opportunities are.



## Partnering for excellence in global aviation

**SESAR AND PARTNERS @ WORLD ATM CONGRESS 2017**

“Partnering for excellence in global aviation” is the theme of the activities taking place at the SESAR stand and theatre during the World ATM Congress, from 7 to 9 March. The activities are hosted by the SESAR Joint Undertaking (SESAR JU) and the SESAR Deployment Manager (SESAR DM) in collaboration with the European Commission, Network Manager, European Defence Agency (EDA), European Aviation Safety Agency (EASA) and EUROCAE.