

Online Research Workshop

# Interdependencies within ATM Performance in the context of a dynamic environment

Three morning sessions 21-23 October 2020

## Invitation

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DATE!



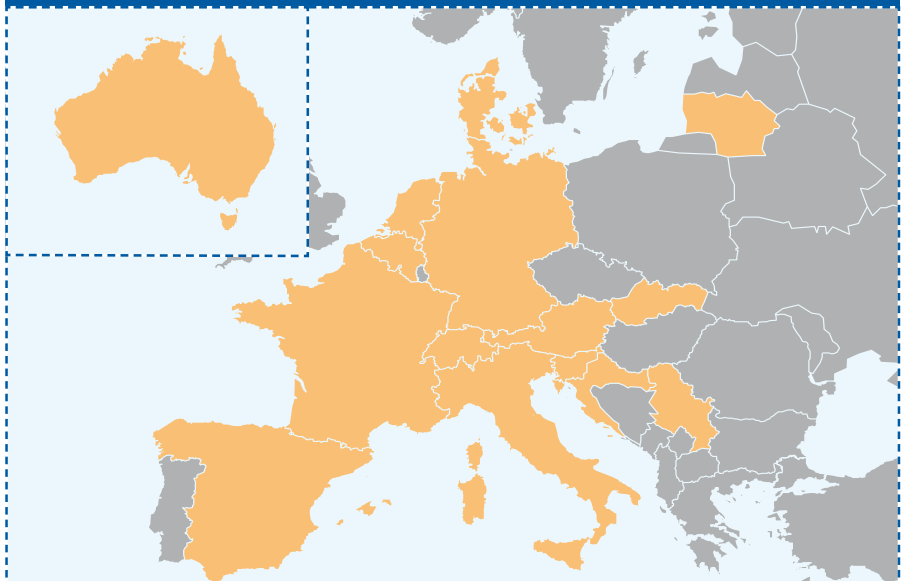
# Interdependencies within ATM Performance in the context of a dynamic environment

BLUE MED FAB and FABEC invite you to an online research workshop on Interdependencies within ATM Performance in the context of a dynamic environment. The event takes place online in three morning sessions on 21, 22 and 23 October 2020. The workshop is organised in partnership with the German Aviation Research Society (G.A.R.S.) and the University of Bologna and brings together industry representatives, academics, researchers and operational delegates to discuss driving factors which influence Air Traffic Management (ATM) performance.

## Aim of the workshop

Air traffic management performance is measured using the four key performance criteria of safety, capacity, environment and cost-efficiency, and is monitored as part of the European Commission's broader initiative to implement the Single European Sky. Performance results provide the basis for planning and investment decisions by air navigation service providers and drive the infrastructure development necessary to support continued growth in passenger as well as cargo services. The research workshop sets out to examine how investment policy is impacted by these measurement criteria, and whether interdependencies between them influence the decision-making process. In light of market upheaval caused by COVID-19, and ongoing review of the

**Papers have been submitted by academics and practitioners from 16 countries:**



Australia, Austria, Belgium, Croatia, Denmark, France, Germany, Italy, Lithuania, Malta, Serbia, Slovakia, Slovenia, Spain, Switzerland, The Netherlands

European Commission's third performance reference period, the workshop provides a timely appraisal of how far these measures have contributed to improved performance and to what extent there are trade-offs and interdependencies which influence the delivery of air traffic services.

Delegates will hear from operational staff and performance analysts, researchers, airlines and service providers about the impact of performance targets on air traffic management. Presentations from

more than a dozen European countries will examine interdependencies between the four key performance areas, and panel sessions led by executives, directors and professors will discuss how the framework provided by the performance review scheme can deliver optimum results for the customer. The analysis extends to comparative data with other regions of the world.

The analysis is set in the context of the changing aviation market experiencing severe economic downturn as a result of





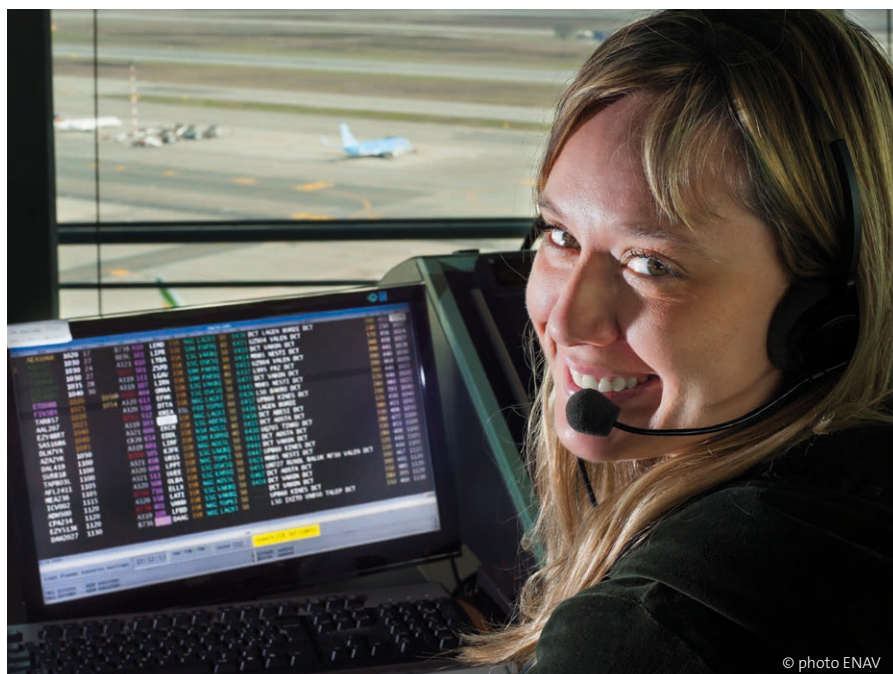
COVID-19 on top of challenging geopolitical developments, new entrants to the airspace, climate change and escalating environmental concern. It is set against a backdrop of expanding data services and new digital capabilities which are less dependent on fixed assets.

The debate centres around the merits of using quantitative and cost-oriented measurement criteria compared with more qualitative assessments to guide the investment framework. Through the use of practical examples and case studies, the workshop examines where and how these parameters are influencing effectiveness of air traffic services in the short and long term.

### Workshop presentations include the following topics:

- Analysis of the relationships and trade-offs between ACC capacity, economic cost and sector overload avoidance
- Performance target setting for Air Traffic Management: limits and solutions
- Understanding the cost of delays using stochastic modelling to assess the distribution of delay costs
- SESAR Exploratory Research projects relating to ATM performance with quantitative and qualitative results showing the interdependency of KPAs
- Trade-off of cost efficiency and investments
- Measuring the impact of locally optimised measures across the European ATM network
- Relationship and interdependency between air traffic and safety complexity
- Airline perspectives on passenger-centric decision making and the impact of airspace user priorities on the network
- Application of advanced statistical analysis and machine learning to support more system-wide integrated metrics.
- Impact of very low level and high altitude operations on key performance areas
- Performance planning in the context of a dynamic environment
- Comparison of different economic regulation globally

*“The workshop examines to what extent interdependencies between performance measures influence the delivery of air traffic services.”*



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### Online registration

The workshop takes place online over three consecutive mornings from 21-23 October 2020, commencing at 0930 each day. Attendance is free of charge.

**For registration please go to [FABEC.eu](https://www.fabec.eu)**

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