

RESEARCH WORKSHOP

PREDICTABILITY AND FLEXIBILITY

18-19 April 2024 in Zagreb, Croatia

Special guest:

Raúl Medina

DG Eurocontrol

Invitation

HOSTED BY



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CONTROL





PREDICTABILITY AND FLEXIBILITY

FAB CE and FABEC are continuing the series of successful annual InterFAB research workshops with a forum in April 2024 dedicated to predictability and flexibility. Both these central aspects in ATM have been identified in the ICAO Framework as key performance areas determining the quality of the operational service provided to the civil and military airspace users.

Aviation – and thus air traffic management – faces substantial changes due to geopolitical, economic, environmental and social developments forcing air navigation service providers to act as flexibly as possible without endangering the robustness of the European aviation network. Therefore, it is crucial to know to what extent, when and at which level of accuracy traffic developments can be predicted.

All aviation partners play their part in the operational value chain, in quantitative, time and spatial distribution. Acknowledging that the accuracy of traffic forecasts varies, special attention will be given to contributions showing how operational flexibility in terms of offer/demand may be adapted. Modern statistical methods and innovative technologies and concepts such as artificial intelligence may pave the way for a better use of new and more detailed data sets supporting both prediction and adaptation – benefitting the whole aviation value chain.

The event is organised in partnership with the University of Zagreb and the German Aviation Research Society (G.A.R.S.).

Aim of the workshop

Flexibility and predictability are two sides of the same coin. However, with more and more volatile traffic there seems to be less predictability in air traffic. This increases the need to become more and more flexible to adapt to a changing

environment. The workshop aims at getting more grip on how predictability and flexibility in air traffic management and its infrastructure could be increased whilst understanding which factors are impacting them.


Questions to be answered

Topics will include lessons learnt on the quality of predictions as well as capabilities to be flexible in a faster changing environment:

- **What are the requirements for accurate traffic predictions? Which time horizons for which areas are needed and what level of accuracy is necessary?**
- **How in practice are traffic predictions used for capacity planning or what kind of flexibility needs to be included in the planning process?**
- **How can traffic forecasts be used to handle daily operations in a control centre?**
- **How can the flexibility and scalability of capacity be enhanced and what are “flexibility destroyers”?**
- **Which possibilities and concepts do airspace users, states, national supervisory authorities and air navigation service providers apply in order to enhance flexibility? Are they in conflict?**
- **Are there metrics which could be used to measure predictability and flexibility?**
- **Do (the key performance areas) of flexibility and predictability relate to each other?**
- **Which data are needed to better understand predictability and flexibility with its operational impact?**
- **To what extent do external factors (weather, special events etc.) impact predictability and flexibility?**
- **To what extent do military operations impact predictability and flexibility? How can we coordinate civil and military operations to make best use of the common resource airspace? Does automation increase or reduce flexibility in ATM? Does automation have any other effects on ATM Performance?**
- **Which technologies may support flexibility and predictability?**
- **How may innovative technological concepts such as automation (cross-border interoperability, ATM Data Service Provider (ADSP), cloud based services, etc.) support flexibility and predictability?**

The workshop aims to bring together academics and practitioners, providing a forum for mutual exchange.

In addition to the presentation of submitted papers, keynote speakers will lead with insights into the discussion topics. The workshop is free of charge to attend but the organisers will not be able to cover travel or accommodation costs of attendees.



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Logistical information and registration

The workshop takes place over two days from 18-19 April 2024 in Zagreb, Croatia. Attendance is free of charge.

To register please go to FABEC.eu or www.inter-fab.eu

For organisational reasons, only online registrations will be accepted. In addition, the number of participants is limited. In case of overbooking, the organiser reserves the right to withdraw reservations.

Contact

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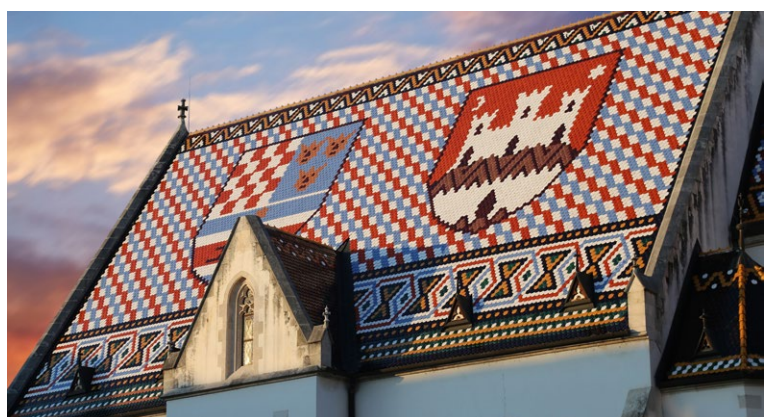
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Workshop Venue



Sheraton Zagreb Hotel

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Croatia



More information on Zagreb?

The Zagreb Tourist Board has it all:

www.infozagreb.hr/en



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