# Aviation Data and Analysis Seminar

## Paris, France, 4-6 April 2018

## Objectives

The Seminar will provide an opportunity to foster the dialogue between States, international organizations and aviation stakeholders on the use of aviation data and analysis to facilitate data-driven decision making.

The Seminar will also provide participants with an opportunity to learn about the new ICAO solutions with respect to the data and analysis available to help States to optimize the social and economic benefits of air transport in the region.

## Programme*

| Day 1 – 4 April 2018 | |
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| 0830-0930 | Registration of Delegates |
| 0930-1015 | **Opening Ceremony**<br><br>- Welcome address by ICAO EUR/NAT Regional Director<br>- Opening remarks by ICAO Deputy Regional Director, MID Office |
| 1015-1045 | Tea/Coffee Break |
| 1045-1145 | **Session 1 – Setting the scene**<br><br>- Economic benefits of aviation<br>- Current situation and trends of aviation in the region<br>- Critical synergies between aviation, tourism and trade: emerging challenges (e-freight, RPAS, e-commerce)<br>- Presentation of the State of Air Transport in 2016 and preliminary results for 2017<br>- ICAO and the United Nations SDGs<br><br>**Presented by:**<br>- Sainarayan Ananthanarayan, Chief Aviation Data and Analysis, ICAO<br>- Antonin Combes, Associate Aviation Officer, ICAO |
| 1145-1215 | **Industry solution (open)** |
| 1215-1330 | Lunch |

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| 1330-1430 | **Session 2 – Air Connectivity Metrics: How can they help decision-making?**<br><br>- ITF Aviation Model of Airport Accessibility<br>- Applying Air Connectivity Metrics to Help Decision-making<br>- Connectivity impacts of expanding airport capacity: A case study of Heathrow's expansion<br>- Connectivity impacts of increased airline cooperation: A case study of Incheon Airport<br><br>**Presented by:**<br>- Jagoda Egeland, Economist, International Transport Forum at the OECD<br>- Dimitrios Papaioannou, Modeller, International Transport Forum at the OECD |
| 1430-1500 | Tea/Coffee Break |
| 1500-1530 | Industry Solution (open) |
| 1530-1630 | **Session 3 – Economics of Airports**<br><br>Airports are complex businesses that operate in unique and evolving physical, financial and regulatory environments. This session will provide a data-driven summary of the main economic characteristics of the airport industry drawing on *ACI's battery of Airport Key Performance Indicators.* In addition to the latest trends in air transport demand across the world's airports, aeronautical and non-aeronautical revenues will be explored over time. Other topics include the economic dynamics of airport throughput and economies of scale as well as an analysis of financial indicators that paint a picture of an airport's bottom line.<br><br>**Presented by:**<br>- Patrick Lucas, Head, Airport Business Analytics, ACI |

| Day 2 – 5 April 2018 | |
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| 0900-1000 | **Session 4 – Cooperation Efforts between Turkish DGCA and ICAO on Advanced Aviation Analytics**<br><br>- Quality control of aviation statistics<br>- Development of traffic forecasts for airport planning<br>- Cooperation between ICAO and the Turkish DGCA<br><br>***Presented by the Turkish DGCA and the General Directorate Of State Airports Administration*** |
| 1000-1030 | Tea/Coffee Break |

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| 1030-1115 | **Session 5 – Air Connectivity and Competition - Air Transport Diagnostics Application (ATDA) Project**<br><br>This session will showcase the joint work of ICAO and Interdisciplinary Centre for Mathematical and Computational Modelling, University of Warsaw (ICM) in developing a state of the art application - the ATDA. The ATDA  provides  intelligence to Member States and stakeholders to determine the linkages between connectivity and competition at a granular level thus enabling them to take decisions to identify factors and take necessary policy measures to  optimize the air transport network.<br><br>*Presented by the Interdisciplinary Centre for Mathematical and Computational Modelling, University of Warsaw* |
| 1115-1215 | **Session 6 – Emerging issues in Data and Analysis**<br><br>Data Privacy<br>Open data<br>Data transparency<br>Big data, Artificial Intelligence and Machine Learning<br><br>*Presented by ICAO* |
| 1215-1330 | Lunch |
| 1330-1415 | **Session 7 – Eurostat data collection on air transport**<br><br>Eurostat will present air transport data collection framework for EU-28 Member States, the European Free Trade Association (EFTA) and other reporting countries, including data validation, quality checks and dissemination processes. The major challenges in data compilation workflow as well as the issues with data consistency and quality measures applied will be discussed. The dissemination channels and the main data users will be described.<br><br>Presented by:<br>- Anna Bialas-Motyl, Air Transport Statistics Domain manager, Eurostat |
| 1415-1500 | **Session 8 – Presentation of the new platform iCADS (ICAO Civil Aviation Data Solutions)**<br><br>iCADS is the new portal for all ICAO civil aviation data and any related information. The portal was built with the needs of the aviation industry in mind, integrating the entirety of data, business intelligence products as well as a selection of curated ICAO reports and documents.<br><br>The all new iCADS portal represents an immersive and holistic experience into |

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| | ICAO's portfolio of applications; allowing users unified to access to the multitude of datasets (historical and forecasts) as well as business intelligence solutions provided by ICAO.<br><br>**Presented by:**<br>- Sainarayan Ananthanarayan, Chief Aviation Data and Analysis, ICAO<br>- Wendy Fu, Programme Management, ICAO |
| 1500-1530 | Tea/Coffee Break |
| 1530-1630 | **Session 9 – Network intelligence to improve network performance, and the bottom line**<br><br>EUROCONTROL will discuss some of the intelligence that the Network Manager provides to airlines, airports, air navigation service providers and regulators to help them better plan and manage traffic. This improves network performance as a whole.<br><br>They include: forecasts, such as the forthcoming Challenges of Growth study; integrated data, through dashboards, and now including web-service access; expert, focused advice from the Central Office for Delay Analysis (CODA); and the Fleetwatch tool.<br><br>**Presented by:**<br>- David Marsh, Head of Forecast & Network Intelligence Unit, EUROCONTROL |

| Day 3 – 6 April 2018 | |
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| 0900-0945 | **Session 10 – Gravity models of air passenger volumes – implications for aviation data and analysis**<br><br>**Presented by:**<br>- David Franson, Regional Director, Market Analysis, Boeing Commercial Airplanes |
| 0945-1015 | Coffee Break |
| 1015-1115 | **Session 11 – Economics of Airlines**<br><br>IATA will discuss the changing economics of travel and cargo markets, how market structures and distribution/product characteristics are influencing the economics of airline financial performance and competition issues, and how network connectivity delivers wider economic benefits.<br><br>**Presented by:**<br>- Brian Pearce, Chief Economist, IATA |

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| 1115-1200 | **Session 12 – States' corner**<br><br>States of the EUR/NAT region are invited to share their experience of using data and analysis for informed policy making to sustain the growth of air transport<br><br>*Presented by the EUR/NAT Regional Office and States* |
| 1200-1300 | Lunch |
| 1300-1430 | **Session 12 – States' corner**<br><br>States of the MID region are invited to share their experience of using data and analysis for informed policy making to sustain the growth of air transport<br><br>*Presented by the MID Regional Office and States* |
| 1430-1500 | Coffee Break |
| 1500-1530 | **Wrap up and closing remarks** |

*Tentative programme: themes, speakers, dates, and times may change.