ICAO Aviation Data and Analysis Seminar

3-5 December 2024, Riyadh, Saudi Arabia

Objectives

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

Participants will gain insights into analytics covering passenger and cargo traffic, aircraft fleet usage, Flight Information Region (FIR) traffic, and financial impacts on airlines, airports, and air navigation service providers (ANSPs). Additionally, the Seminar will address the integration of AI and big data in aviation, ICAO's long-term traffic forecasts, and tools like the UN Comtrade database for decision-making in cargo transport, aviation satellite accounts for GDP analysis, and global aviation competitiveness indices for policy development.

Day 1	
09:00-09:30	Registration of Delegates
09:30-10:00	Welcome remarks by ICAO and GACA
10:00-10:15	Group photo
10:15-10:45	Presentation of key trends in air transport by ICAO This presentation highlights global air traffic recovery, growth trends across route groups, and ICAO forecasts for passenger and cargo traffic. It also addresses evolving infrastructure needs and the role of technology and sustainability in shaping the aviation sector.
10:45-11:15	Tea/Coffee Break
11:15-12:00	The Transformative Impact of AI in Aviation by ICAO This presentation explores the integration of artificial intelligence in aviation, highlighting its applications in forecasting, passenger experience, security, environmental sustainability, and operational efficiency. It also showcases how ICAO leverages AI and big data for insights and decision-making, addressing the challenges of implementation and the future potential of AI-driven innovations in the industry.
12:00-13:30	Launch
13:30-14:30	GACA BI Aviation Program
14:30:15:30	Economics of Airports by ACI

Day 2	
09:30-10:30	**Aviation Satellite Account** The presentation will show how aviation satellite account can be used for determining the social and economic (GDP) contribution from civil aviation for informed policy making by Member States
10:30-11:00	Tea/Coffee Break
11:00-12:00	**ICAO Big Data dashboards** The ICAO big data dashboards encompass a wide array of analytics ranging from operations to financials, including evolution of passenger and cargo traffic, aircraft fleet usage, traffic by Flight Information Region (FIR), and revenue impact on airlines, airports, and air navigation services providers (ANSPs).
12:00-13:30	Launch
13:30-14:30	**Introduction to Comtrade statistics and big data by UN** This presentation will showcase the UN Comtrade database, a comprehensive resource for informed decision-making in the carriage of cargo via air transport.
14:30-15:30	**Introduction to ICAO Statistics Programme** This presentation provides an overview of ICAO's Statistics Programme, established under the framework of the Chicago Convention. It will showcase the statistical forms used and the extensive coverage achieved, highlighting the programme's role in supporting global aviation analysis and planning.

Day 3	
09:30-10:30	**Presentation on BI tools by ANAC**
10:30-11:00	Tea/Coffee Break
11:00-11:30	**Global Aviation Competitiveness Index** ICAO will present the progress of the Global Aviation Competitiveness Index that measures the ability of a State to create and maintain value from its civil aviation sector. The presentation will focus on the development of methodologies and data sources to measure global aviation competitiveness and particularly the pillars and metrics. The development of this index can structurally drive outcomes and be a core lever for policy interventions across States.
11:30-12:00	**ICAO Long-Term Traffic Forecasts** The Secretariat collaborated with the Multi-Disciplinary Working Group on Long-term Traffic Forecasts and the Committee on Aviation Environmental Protection to create post-COVID-19 traffic forecast scenarios. These forecasts update long-term predictions by incorporating short-term pandemic impacts and long-term recovery projections, aiding planning for states, airlines, airports, ANSP, and other
12:00-13:30	Launch
13:30-14:00	**Presentation on ICAO civil aviation data solutions and wrap up**