Setting the Scene

ICAO Aviation Data and Analysis Dashboards Webinar

Cairo, 20 February 2023

IMPORTANCE OF DATA
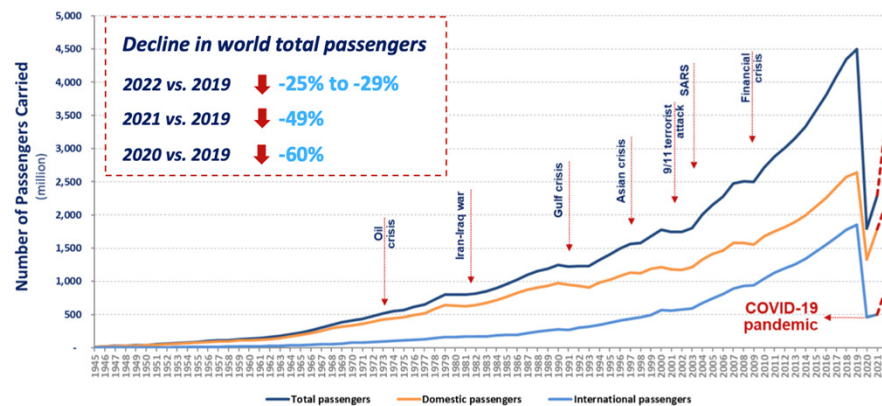
LEVERAGING BIG DATA

The term "Big Data" is often used synonymously with other related concepts such as business intelligence and data mining.

Big Data

- Large volume of data
- Day-to-day necessities of a corporation
- **Purpose** :
  ➢ Analysis for accurate insights
- **Objective** :
  ➢ Better decision-making
  ➢ Strategic business moves

Volume

In 2020 – 50 times the amount of data in 2011.

Velocity

Large amount of data must be dealt with in a timely manner.

Variety

Data comes in many various formats.

UNDERSTANDING DATA

Challenge	Solution	Result

- Large volumes of data
- Inadequate, disconnected or asymmetric information

- ➢ Big data
- ➢ Advanced analytics
- ➢ Business Intelligence

- ✓ Comprehensive understanding
- ✓ Integrate all links of the value chain
- ✓ Effective decision-making

ELEVENTH MEETING OF THE STATISTICS DIVISION

- 185 members and observers
- 72 Member States
- 9 international organizations
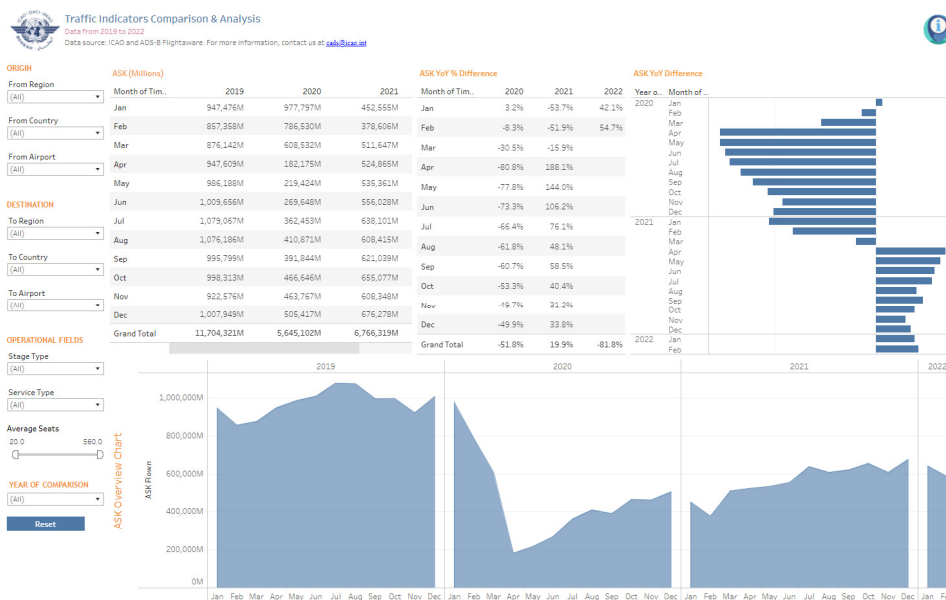
- 4 – 8 April 2022
- Virtual

Key recommendations pertaining to:

➤ enhanced data reporting and long-term traffic forecasts;
➤ collaboration on big data projects;
➤ the development of an aviation competitiveness index

Dashboards to monitor the State of the Industry and
COVID-19 pandemic related economic and operational impacts

All States have been provided with a free license to access ICAO dashboards

Council Members and ICAO delegates received an exclusive license

ICAO BI DASHBOARDS

FUNCTION

- Operations and economic impact tracker
- Interactive visualization
- Data download by parameters
- Scalable

RESULT

- Informed planning and implementation
- Data-driven decision-making
- ICAO cooperation with external stakeholders

UPDATES

- Weekly updates
- Integration of States' feedback
- Machine learning algorithms to continuously improve future forecasts and estimates

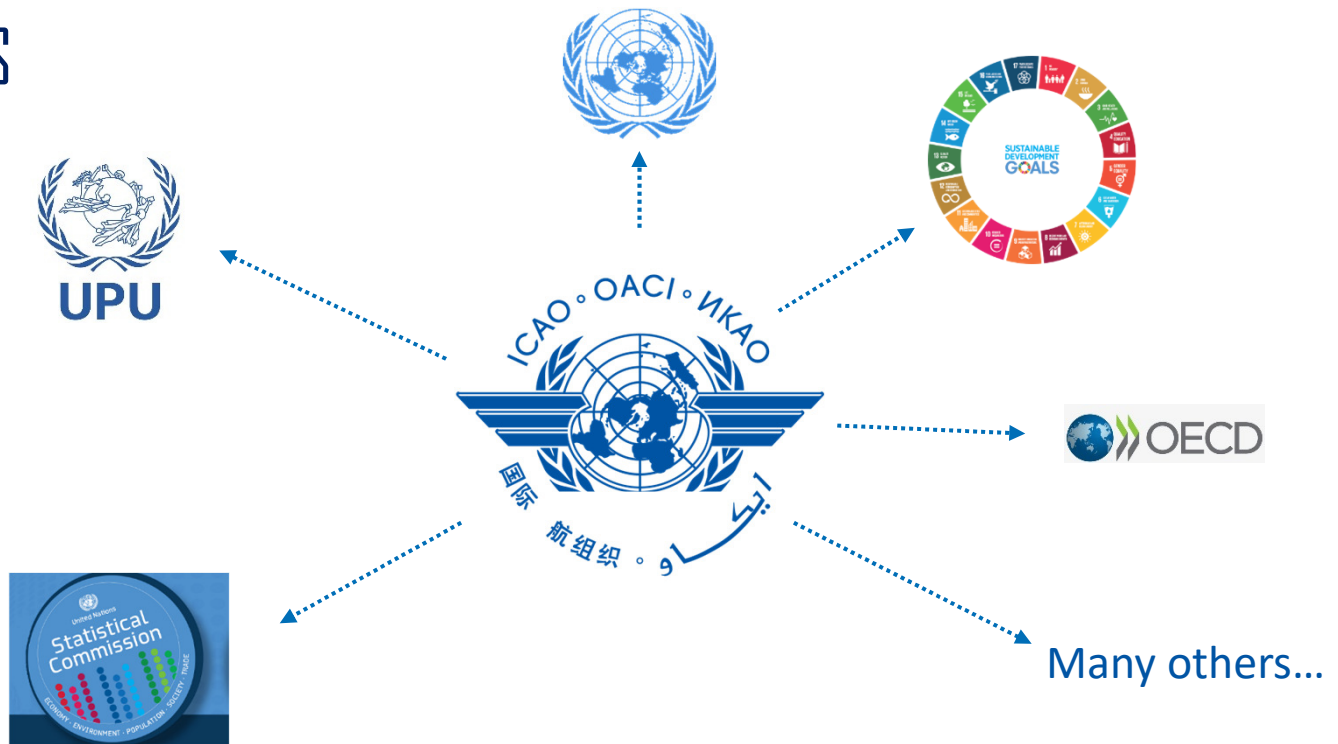**All States - as well as Council Members and delegates – have a free license to access ICAO dashboards**

DATA INITIATIVES

UPU

Statistical Commission

SUSTAINABLE DEVELOPMENT GOALS

OECD

Many others…

THANK YOU