Contribution of ICAO Strategic Objective C - Aviation Security and Facilitation to Innovation

- Need to address current and future challenges and opportunities of innovation in the field of Aviation Security and Facilitation

- Looking at series of opportunities for direct engagement between ICAO and innovators under strategic objective on Aviation Security and Facilitation

- Main interaction with innovators takes place through various events and activities organized by ICAO, including this webinar

INNOVATION
WORKSHOP

ICAO

ICAO Organization and Structure

❑ ICAO Secretariat:

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                            Secretary
                             General
   ┌──────────┬──────────────┼──────────────┬──────────────┬──────────┐
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| **A**ir **N**avigation **B**ureau | **A**ir **T**ransport **B**ureau | **T**echnical **C**o-operation **B**ureau | Legal Affairs and External Relations Bureau | Bureau of Administration and Services | Seven Regional Offices, etc. |

- Economic Development
- Environmental Protection
- Aviation Security and Facilitation

Link to ICAO Organigramme
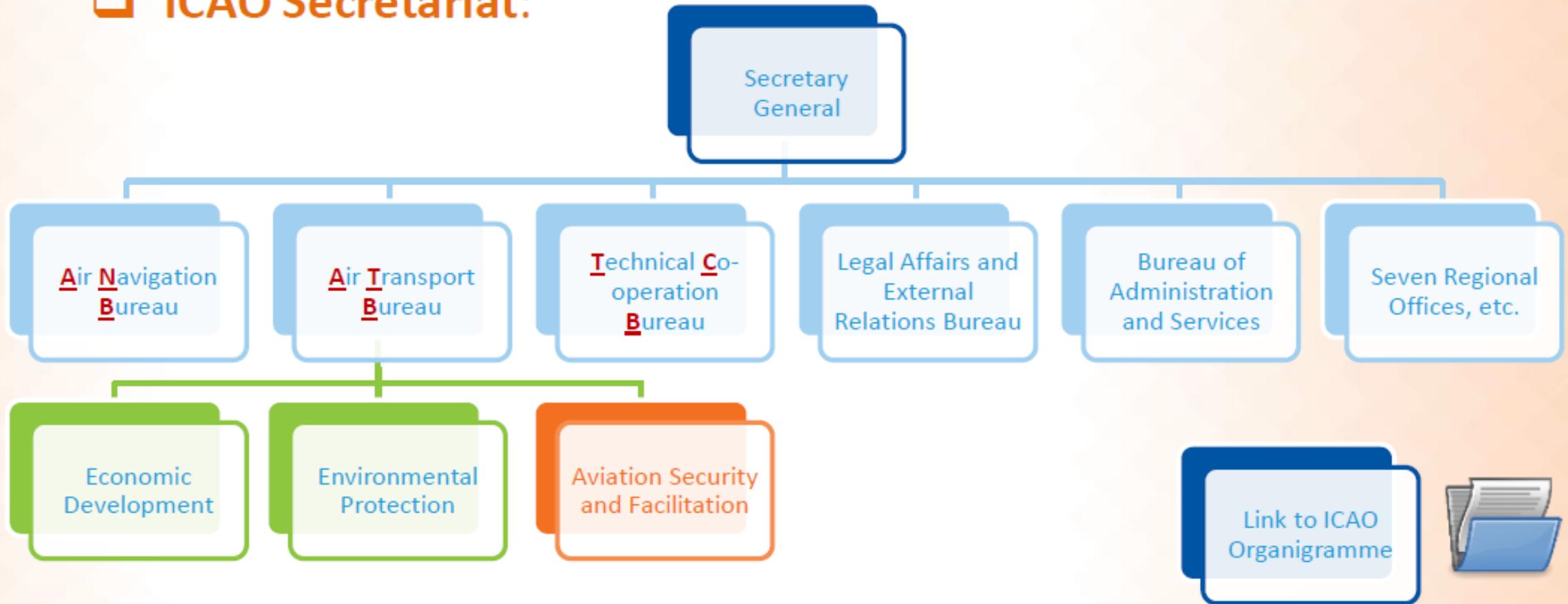
Acts of Unlawful Interference

These are acts or attempted acts such as to jeopardize the safety of civil aviation, including but not limited to:

- unlawful seizure of aircraft,
- destruction of an aircraft in service,
- hostage-taking on board aircraft or on aerodromes,
- forcible intrusion on board an aircraft, at an airport or on the premises of an aeronautical facility,
- introduction on board an aircraft or at an airport of a weapon or hazardous device or material intended for criminal purposes,
- use of an aircraft in service for the purpose of causing death, serious bodily injury, or serious damage to property or the environment,
- communication of false information such as to jeopardize the safety of an aircraft in flight or on the ground, of passengers, crew, ground personnel or the general public, at an airport or on the premises of a civil aviation facility.

Aviation Security

The *Working Group on Innovation in Aviation Security* of the Aviation Security Panel (AVSECP) monitors and analyzes the impacts of technological and procedural innovations to efficiently mitigate new and evolving threats.

This group discussed topics including;

- Artificial Intelligence(AI) & Open Architecture

- Explosive Vapour Detection(EUD)

- Standards & Certification of equipment

- Contactless Solutions

- Counter UAS technologies etc
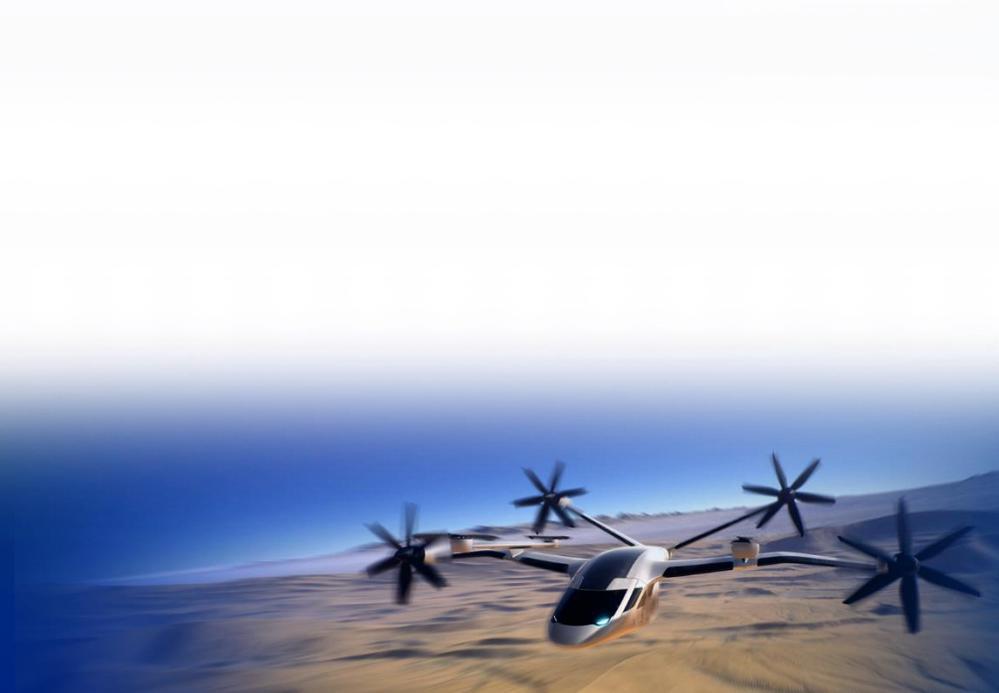
- The annual *Global AVSEC Symposium* gathers key stakeholders from States, industry, manufacturers and academia, in order to, among other objectives, raise the sector's awareness on the latest developments and trends which are shaping the future of aviation security.

- This is complemented when feasible with an exhibition area, which is an opportunity for attendees to understand better the technologies and techniques entering the market and their impact on our activities. Such direct exposure to the industry feeds strategic considerations.

The *Secretariat Study Group on Cybersecurity (SSGC)* was established following Assembly Resolution A39-19 in order to ensure a cross-cutting approach to cybersecurity and cyber resilience across civil aviation domains in a harmonized and holistic manner.

It has since been replaced by a Cybersecurity Panel, which has started its work in May 2022.

ICAO Annex 9 – *Facilitation*

❑ Implementation of Annex 9 SARPs are essential:
- ✈ To facilitate the clearance of:
  - ✓ aircraft;
  - ✓ passengers and their baggage;
  - ✓ cargo, mail and other articles.
- ✈ To manage challenges in border controls and airport processes to maintain both the security and the efficiency of air transport operations.
- ✈ Key issue is interagency coordination
- ✈ Other issues – accident victims, health, unruly pax, reduced mobility, trafficking persons.

Key Concepts - ICAO TRIP Strategy

Globally interoperable applications that provide for timely, secure and reliable linkage of MRTDs and their holders to relevant data in the course of inspection operations, e.g. API, PNR, SLTD

Credible evidence of identity, involving the tracing, linkage and verification of identity

Manufacture of standardized MRTDs, that comply with ICAO specifications (Doc 9303)

For the efficient and secure reading and **verification of MRTDs,** e.g. ABC, PKD

Processes for document issuance by appropriate authorities, and controls to prevent theft and loss

Objective: All Member States can uniquely identify individuals

EVIDENCE OF IDENTITY

INTEROPERABLE APPLICATIONS

MRTDs

INSPECTION SYSTEMS AND TOOLS

DOCUMENT ISSUANCE & CONTROL

IDENTITY MANAGEMENT

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- The Implementation Capacity building working group(ICBWG) provides advice and guidance for the development of Annex 9 SARPS related to travel documents and border control/facilitation area

- ICBWG assists states to comply with SARPS, invest in appropriate system and technologies and implement best practices to achieve inter-operability and security

- ICDWG key focus is to ensure the ICAO NO country left behind mandate is realized

- The *New Technologies Working Group* (NTWG) explores innovative topics, mostly in relation to passenger identification, automated border control, biometrics and digital travel documents.

- Member States' experts and industry representatives develop guidance documents or propose the development of SARPs, which are subsequently considered by the Facilitation Panel.

- The *Traveller Identification Programme* (TRIP) Symposium creates the optimal platform for a fruitful exchange of views between States, industry, manufacturers and academia in the area of facilitation.

- The exhibition area is of prime importance, as it offers a unique opportunity to navigate the innovations and technological developments displayed by manufacturers, which in turn can inform the work of ICAO and strategic decision-making.

New Developments – Public Health

- Heightened entry requirements(testing, vaccination, recovery, contact details etc.) resulted in numerous health proof solutions

- FAL panel 29 approved amendments to ANNEX 9

- These new SARPS are contained in Chapter 10 entitled Health Provisions