

# AFI AVIATION WEEK – 8<sup>th</sup> EDITION

## AFI Aviation Symposium



### Session 5:

## Aviation Security and Cybersecurity policy developments

Presented by: Secretariat

Nairobi, Kenya: August 2023



## Presentation overview

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Annex 17 – *Aviation Security*  
Amendment 18

02

Global Aviation Security Plan

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41st Session of the Assembly  
– Aviation Security

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AVSECP/34 Major Outcomes

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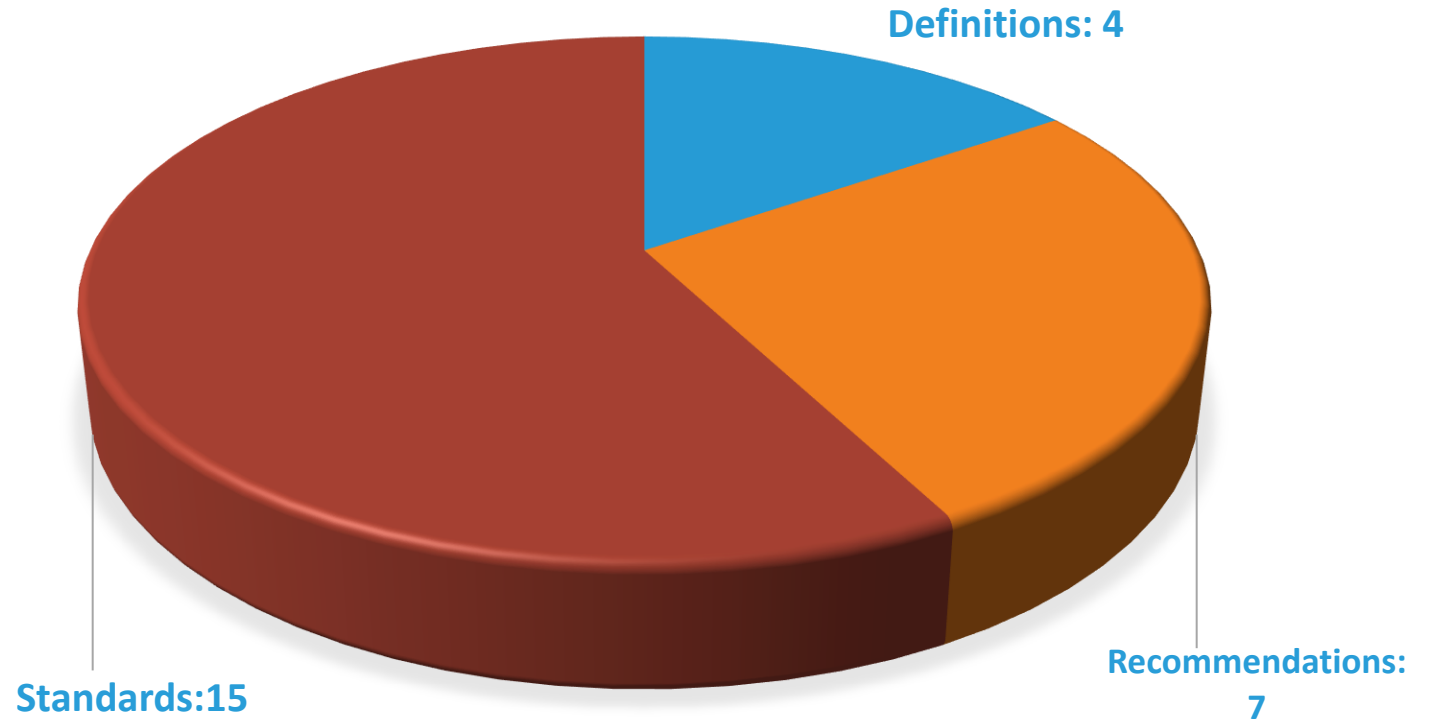
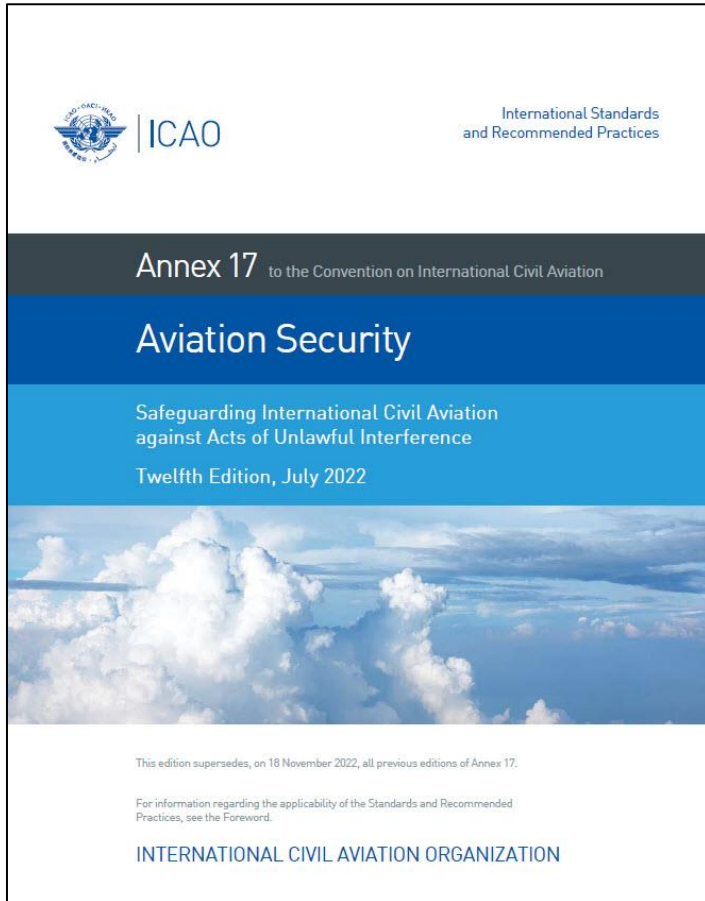
Cybersecurity activities

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*Annex 17 – Aviation Security*  
Amendment 18



# Amendment 18 Annex 17

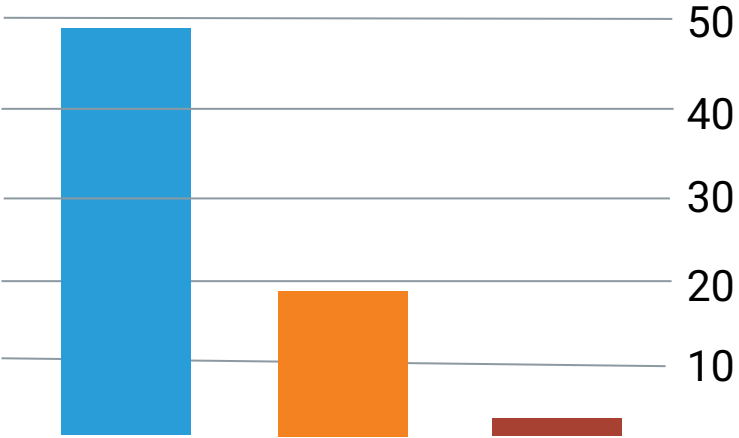



# Summary of State notification

49  
States notified compliance  
+ 1 SAR



20  
States notified differences



Differences are valid mostly until 1 January 2024

# When will guidance be available ?

- 13th Edition of the ICAO *Aviation Security Manual* (Doc 8973 - Restricted) is published in all ICAO languages.
- Some additional new/revised guidance was made available on June 2023.



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# AVSEC - Global Aviation Security Plan

# Global Aviation Security Plan (GASeP)

## Roadmap

### Priority Outcome 1

Enhancing risk awareness + response

### Priority Outcome 2

Security Culture

### Priority Outcome 3

Improve technological resources and foster innovation

### Priority Outcome 4

Improve oversight + Quality assurance

### Priority Outcome 5

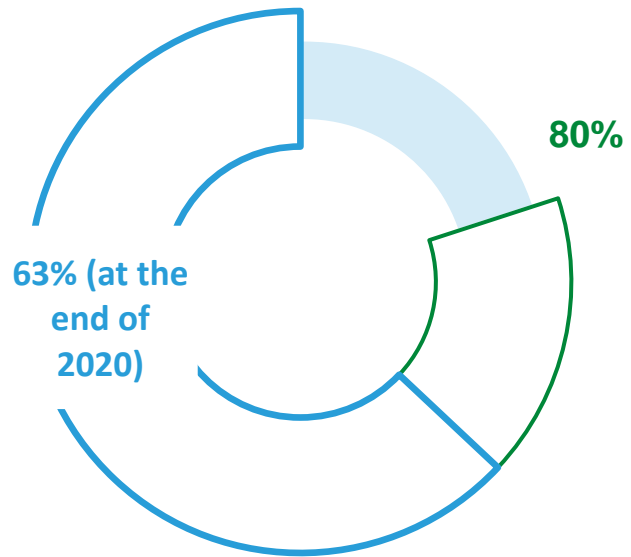
Increase cooperation + support







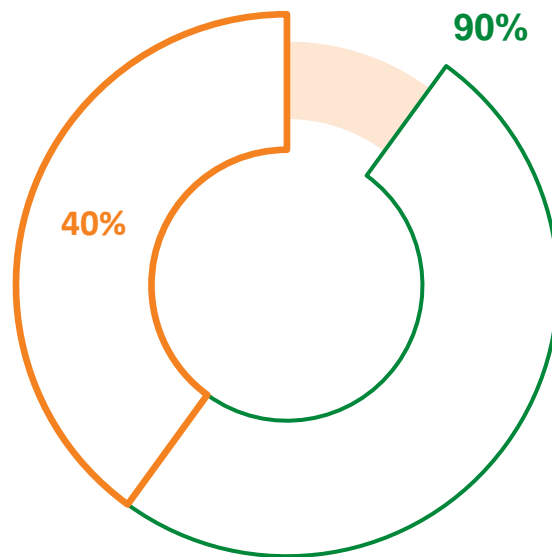
# Aspirational targets (data as of 31 March 2022)



2020

80% States over 65% effective implementation

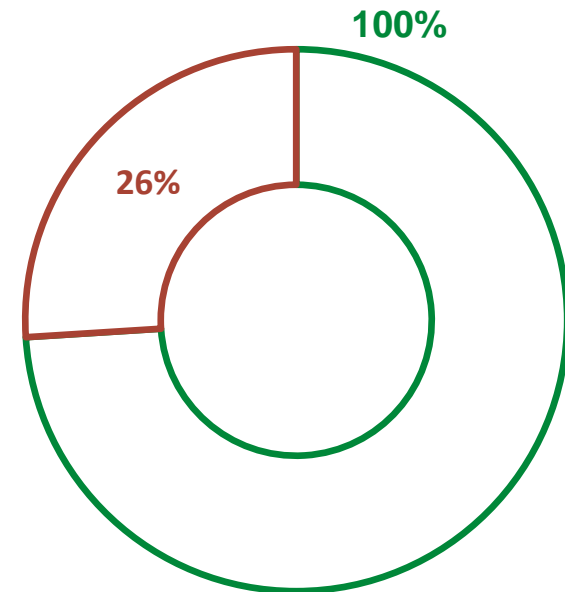
**NOT MET**



2023

90% States over 80% effective implementation

**VERY UNLIKELY TO BE MET**



2030

100% States over 90% effective implementation



## Evaluation of the GAsEP

Some key findings include:

The 2021 evaluation by the Secretariat's Office of Internal Oversight points to key lessons learned from the experience of implementation in the past five years. The findings and recommendations of the evaluation are proposed to guide efforts in preparing for the first revision of the Plan.



Aspirational targets are important but need to be realistic



Evidence that progress is being made in implementing GAsEP but there needs to be a coherent monitoring and reporting framework



Good aviation security technical assistance provided by ICAO to Member States but will be much better with budgetary allocation and human resources

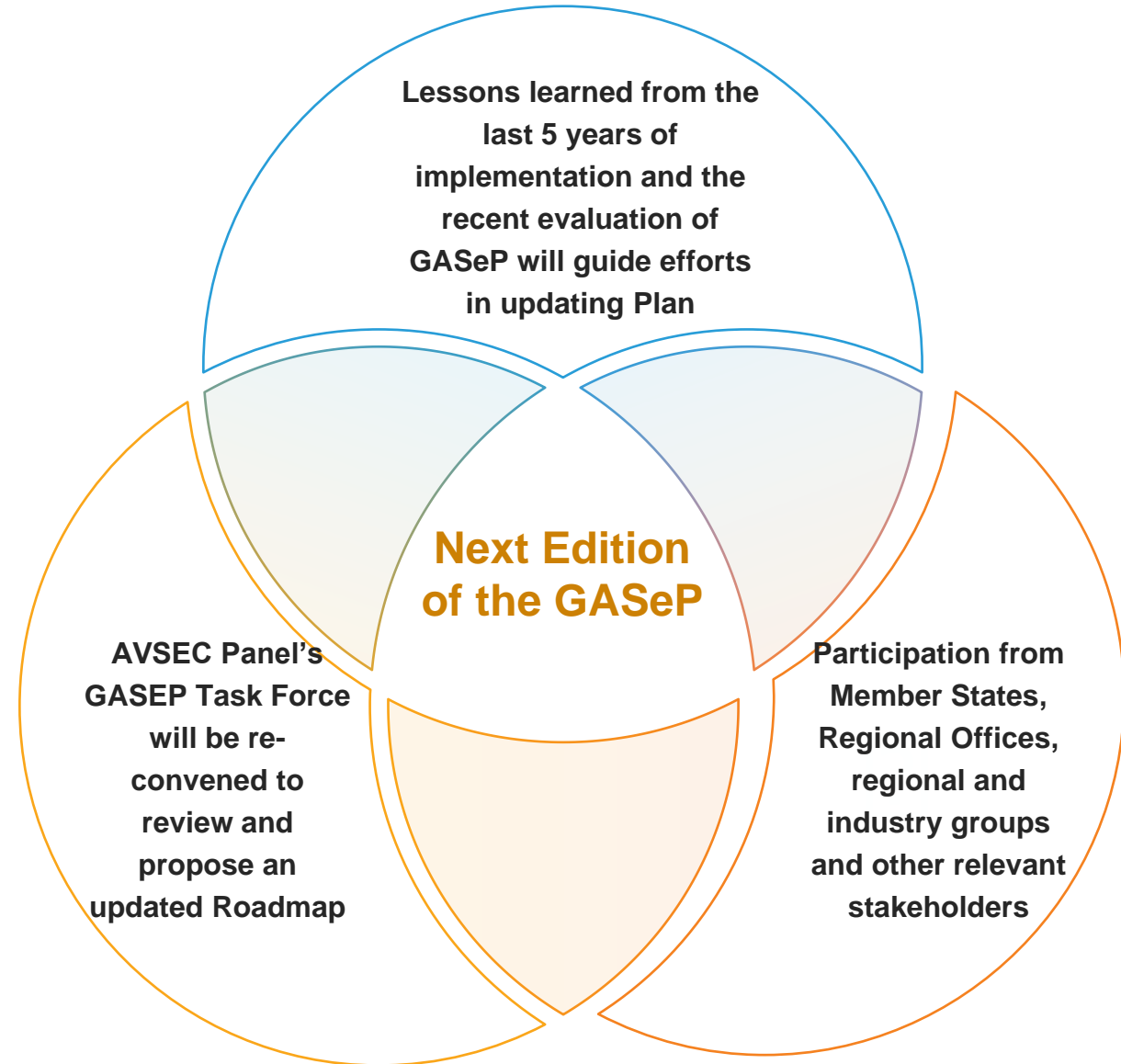


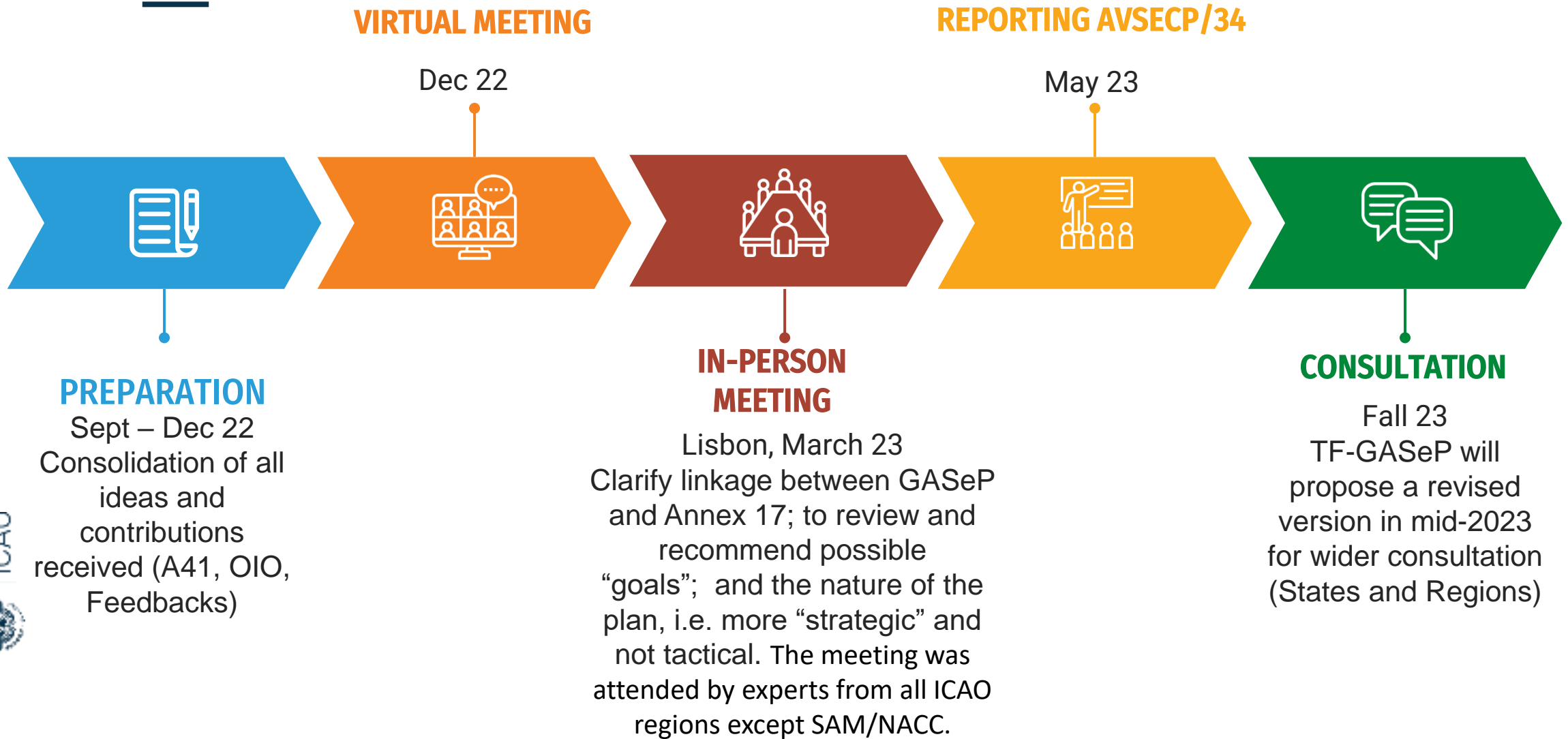
## Updating the GAsEP



Main review areas  
(as indicated by A41)

- Aspirational targets
- Roadmap
- Monitoring and reporting processes



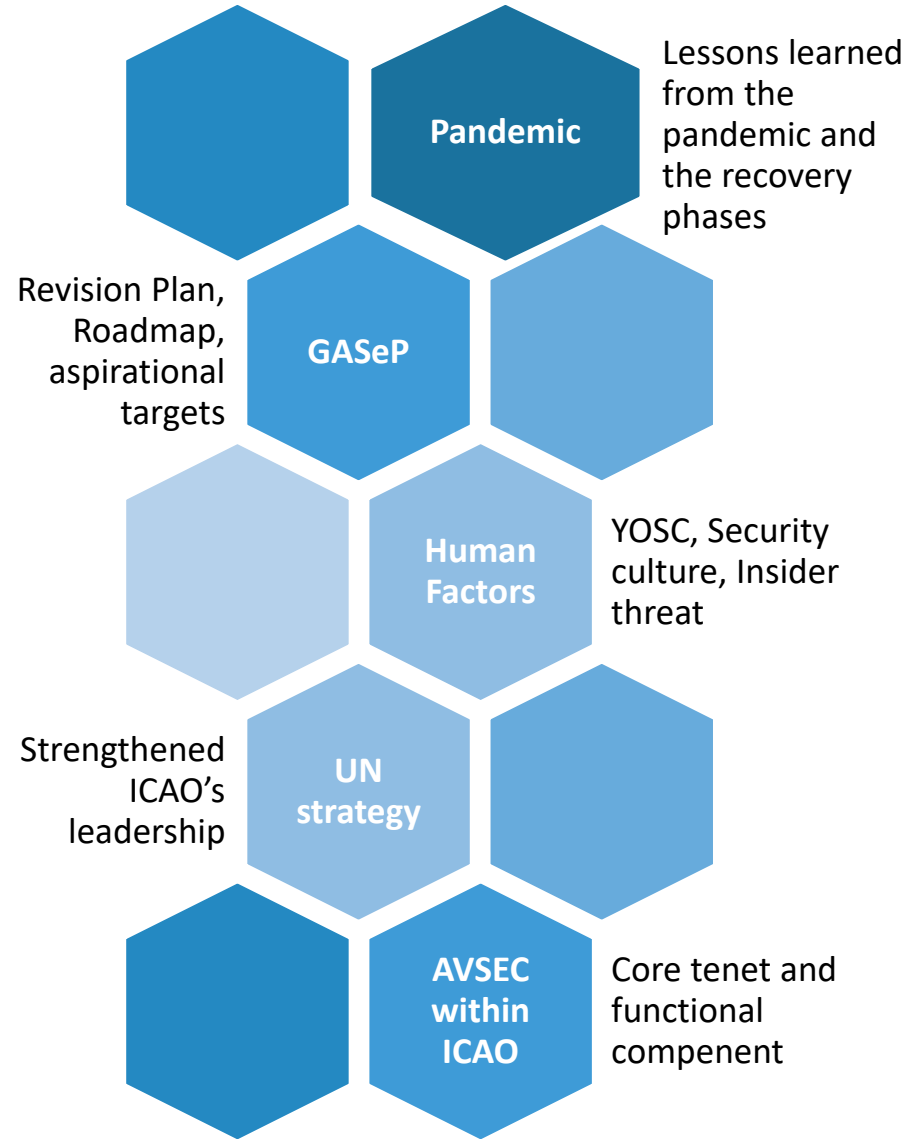




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# Key conclusions Aviation Security

41st Assembly





# AVSECP/34 Major Outcomes



Assessment of  
threat and risk



Guidance material



Panel's technical  
advice to Member  
States



GAsEP



AVSEC Panel's  
internal  
procedures



Work programme

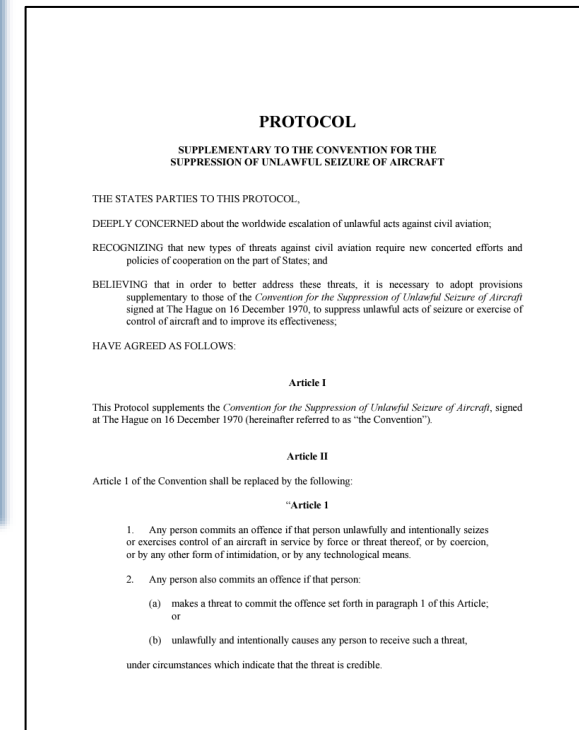
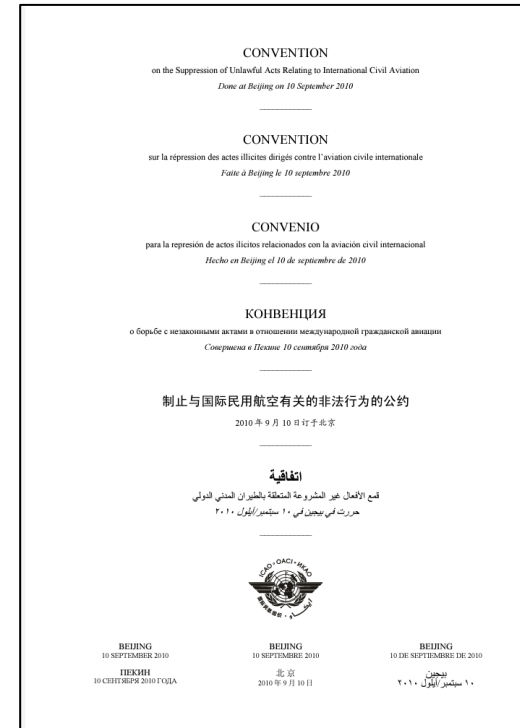
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## Aviation Cybersecurity activities

# ICAO's Work on Aviation Cybersecurity – International Legal Instruments

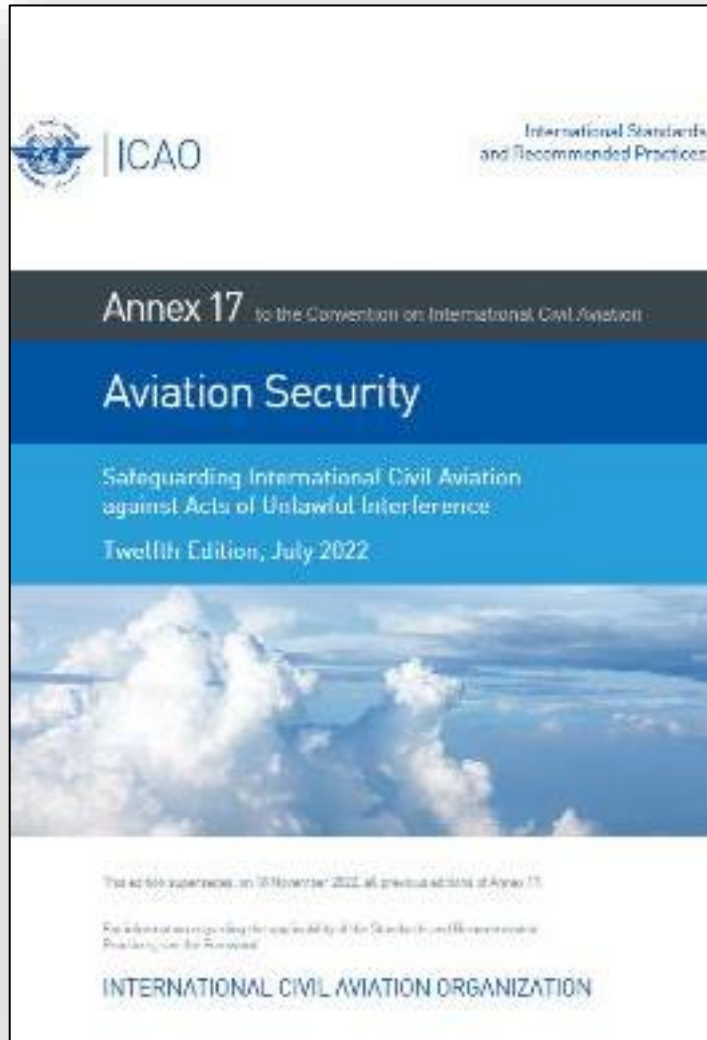
- The Beijing Convention (2010)
- The Beijing Protocol (2010)

Governments' Adoption of the Beijing Instruments is an Important **DETERRENT** of Cyber-Attacks Against Civil Aviation





# ICAO's Work on Aviation Cybersecurity – SARPS



## Annex 17 to the Chicago Convention – *Aviation Security*

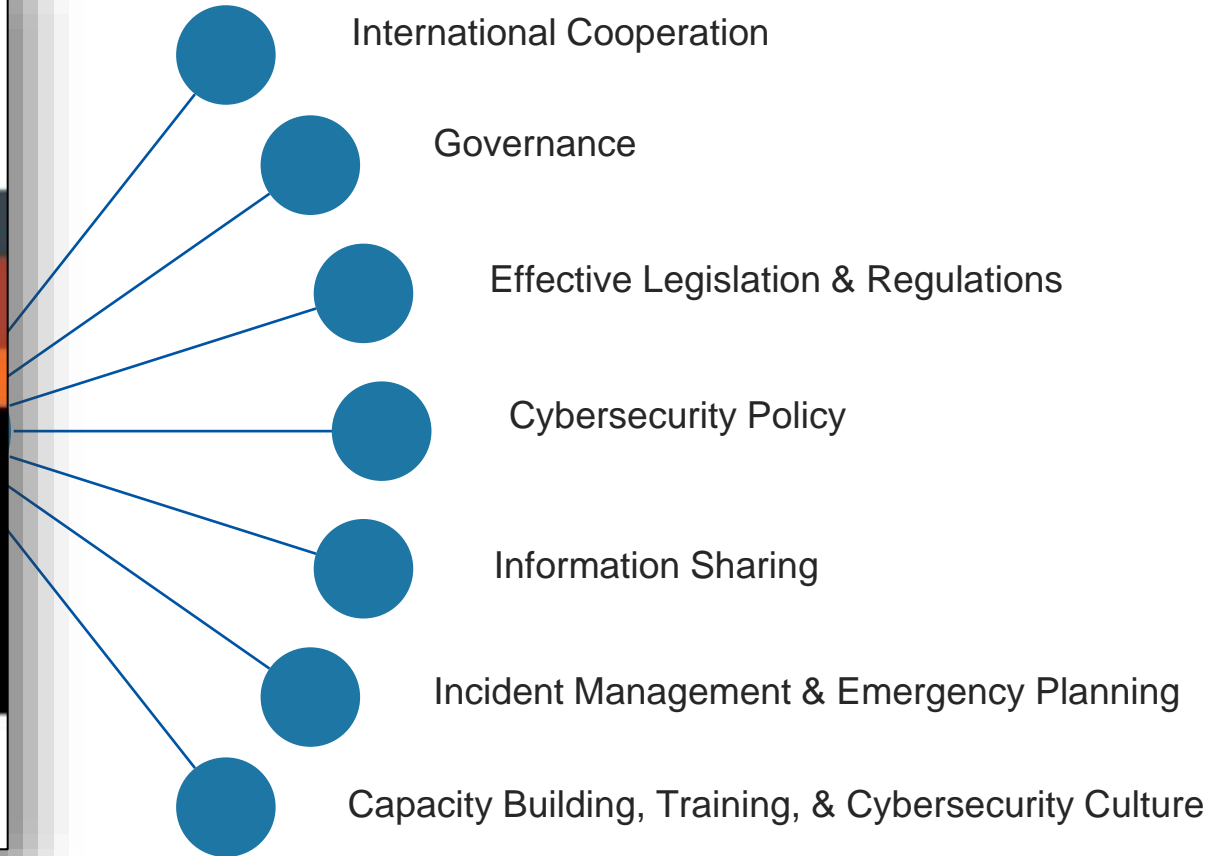
### Standard 4.9.1

- Each Contracting State shall **ensure that operators or entities** as defined in the national civil aviation security programme or other relevant national documentation **identify their critical information and communications technology systems and data** used for civil aviation purposes and, in accordance with a **risk assessment**, develop and implement, as appropriate, **measures to protect them from unlawful interference**

### Recommended Practice 4.9.2

- Recommendation— *Each Contracting State should ensure that the measures implemented protect, as appropriate, the confidentiality, integrity and availability of the identified critical systems and/or data. The measures should include, inter alia, security by design, supply chain security, network separation, and the protection and/or limitation of any remote access capabilities, as appropriate and in accordance with the risk assessment carried out by its relevant national authorities*

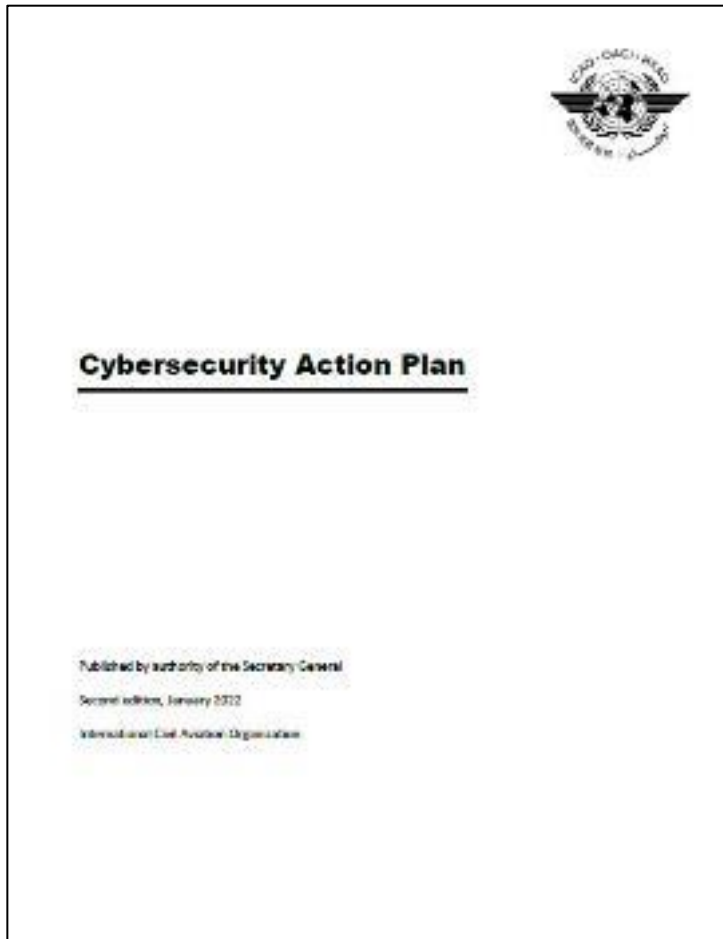
# The Aviation Cybersecurity Strategy





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# The Cybersecurity Action Plan



- **First Edition** published in November 2020
- **Second Edition** published in January 2022
- Available on **ICAO Public Website**
- Provides **the Foundation** for ICAO, States and stakeholders to work together
- Develops **the 7 Pillars** of the Aviation Cybersecurity Strategy into **32 Priority Actions**, which are further broken down into **51 Tasks** to be implemented by ICAO, States, and Stakeholders



# Key conclusions Aviation Cybersecurity

41st Assembly

## ICAO 41st Session Assembly Resolution A41-19: *Addressing Cybersecurity in Civil Aviation*

- Highlights the **need for global adoption** of the **Beijing Instruments**
- Recognizes the need for **aviation cybersecurity to be harmonized**
- Calls upon **States to (not an exhaustive list)**:
  - ✓ implement **ICAO Aviation Cybersecurity Strategy**, and make use of the **ICAO Cybersecurity Action Plan**
  - ✓ encourage **government/industry coordination** with regard to aviation cybersecurity strategies, policies, and plans, as well as **sharing of information** to help identify critical vulnerabilities that need to be addressed
  - ✓ develop and participate in **government/industry partnerships and mechanisms**, nationally and internationally, for the systematic sharing of **information** on cyber threats, incidents, trends and mitigation efforts
  - ✓ **design and implement a robust cybersecurity culture** across the civil aviation sector

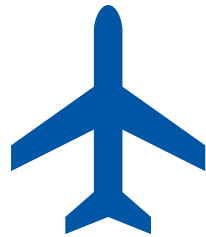


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# ICAO Cybersecurity Panel – Second Meeting – June 2023



# ICAO Cybersecurity Panel – Second Meeting – Major Outcomes



SARPs Gap Analysis



Aviation Global Cyber Threat & Risk  
Methodology and Picture



Guidance Material



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HUMAN FACTORS | CARGO | CYBER | INSIDER | UAS

ICAO SECURITY WEEK  
**AVSEC 2023**  
**CYBERSEC 23**



IED | ACTIVISM | SEMS | CONFLICT ZONES

MONTRÉAL, CANADA | 23 - 27 OCTOBER 2023



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Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

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Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
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Middle East  
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Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
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THANK YOU

[CART Report: www.icao.int/covid/cart](http://www.icao.int/covid/cart)