

Twenty-Second Meeting of the AFI Planning and Implementation Regional Group (APIRG/22)

(Accra, Ghana, 29 July – 2 August 2019)

Agenda Item2:

OUTCOME OF THE THIRTEENTH AIR NAVIGATION CONFERENCE (AN-CONF/13)

(Presented by the Secretariat.)

	SUMMARY			
This working paper (Conf/13)	er presents the outcome of the Thirteenth Air Navigation Conference (AN-			
Action by the Meeting to note the information presented; and b) take action as in para 2.4.				
Strategic	Safety and Air Navigation			
Objectives				

1 INTRODUCTION

- 1.1 The Thirteenth Air Navigation Conference (AN-Conf/13), held in Montréal from 9 to 19 October 2018, discussed eight agenda items under two Committees: Committee A (Air Navigation Capacity and Efficiency) discussed Agenda Items 1, 2, 3, 4 and 5 and Committee B (Safety) discussed Agenda Items 6, 7 and 8. The meeting was attended by a total of 1022 participants from 116 Contracting States and 37 International Organizations.
- 1.2 A total of fifty-two Recommendations were adopted by the Conference and are published in the Report of the Thirteenth Air Navigation Conference (AN-Conf/13) (Doc 10115)1.
- 1.3 The Council of ICAO approved all AN-Conf/13 Recommendations on 27 February 2019, Appendix A is the Supplement No. 12 to the AN-Conf/13 Report, which details suggested follow-up actions on each of the Recommendations, was published.

2. DISCUSSION

The AN-Conf/13 set the foundation for the future of Aviation Safety, as well as Capacity and Efficiency covering traditional areas in addition to new and emerging ones (Doc 10115 refers). During the Conference a wide range of subjects were considered: Air Traffic Management (ATM); Communications, Navigation, and Surveillance (CNS); Aeronautical Meteorology; Information Management; Aerodromes, Human Factors; Civil-Military Collaboration; Implementation; Remotely Piloted Aircraft System (RPAS); Search and Rescue (SAR); Cyber Resiliency, New Operations Types; Global Aviation Safety Oversight System (GASOS); Safety Management; Universal Safety Oversight Audit Programme (USOAP)

Attachment

Continuous Monitoring Approach (CMA); and Regional Safety Oversight Organizations (RSOO).

- 2.2 The Conference agreed with strategies to guide the development and implementation of initiatives outlined in the Global Aviation Safety Plan (GASP) and the Global Air Navigation Plan (GANP), and several recommendations will be used to update the GANP and GASP. The updated GANP and GASP will also be presented to the Assembly for endorsement.
- 2.3 As an outcome of the AN-Conf/13 the aviation community agreed with Recommendations in the field of Safety and Air Navigation Capacity and Efficiency that have been reviewed by the Council and considered relevant for inclusion in the Organization Work Programme. The resources required to address these recommendations were identified and the Work Programme was reviewed in preparation of the budget discussions prior to the Assembly.
- Following the approval by the Council of ICAO (paragraph 1.3 refers) of the AN- Conf/13 Recommendations, States are now urged to appropriately address the Recommendations directed to States (Supplement No. 1 to Doc 10115 refers).

3. **ACTION BY THE MEETING**

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a) note the information presented; and b) take action as in para 2.4.

10115) is available at: https://portal.icao.int/icao-net/Pages/Doc10115.aspx

^{*} The Report of the Thirteenth Air Navigation Conference (AN-Conf/13) (Doc 10115) is available at : https://portal.icao.int/icao-net/Pages/Doc10115.aspx
2 Supplement No. 1 to the Report of the Thirteenth Air Navigation Conference (AN-Conf/13) (Doc

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INTERNATIONAL CIVIL AVIATION ORGANIZATION

THIRTEENTH AIR NAVIGATION CONFRENCE (2018) Montréal, Canada, 9 to 19 October 2018 SUPPLEMENT NO. 1

- 1. The Council, at the xxx meeting of its 216th Session on xx February 2019, and the Air Navigation Commission at the second meeting of its 210th Session on 29 January 2019, under authority delegated by the Council, took action as indicated hereunder on the recommendations of the Thirteenth Air Navigation Conference (2018).
- 2. RECOMMENDATIONS FOR SPECIFIC AMENDMENT OF STANDARDS AND RECOMMENDED PRACTICES
- 2.1 The Conference made no recommendations for specific amendment to Annexes.
- 3. RECOMMENDATIONS OTHER THAN FOR STANDARDS AND RECOMMENDED PRACTICES AND PROCEDURES
- 3.1 The Council noted that the following will be the allocation of follow-up responsibility for other than specific amendment to Annexes recommendations made under Agenda Items 1 to 8:

A-2 C-WP/14837

Appendix

SUGGESTED FOLLOW-UP ACTION

RECOMMENDATIONS ADOPTED BY ANCONF/13

AIR NAVIGATION COMMISSION (ANC)

Agenda Item 1:Air navigation global strategy — 1.1: Vision and overview of the sixth edition of the GANP; 1.2: Air navigation performance improvement and measurement through the aviation system block upgrades (ASBUs) and basic building blocks (BBBs) framework; 1.3: Air navigation roadmaps; and 1.4: Air navigation business cases

1.4: Air navigation business cases		
Recommendation 1.1/1 — Vision and overview of		
the Sixth Edition of the Global Air Navigation Plan		
(Doc 9750, GANP)		
That States:		
a) agree that the future Global Air Navigation Plan (Doc 9750, GANP), based on the outcome of the Thirteenth Air Navigation Conference (AN Conf/13), be available as a web-based platform, including a concise executive summary (printable) which outlined its key policies, priorities and strategies to ensure that the GANP was easily accessible to all States and key decision makers;	a) to d): Approve, and request the Secretary General to take appropriate actions and bring to the attention of States.	a) to d): Note.
b) agree with the proposed multilayer structure for the Sixth Edition of the GANP;		
c) welcome the proposed vision, performance ambitions and conceptual roadmap for the Sixth Edition of the GANP, with the inclusion of the civil-military dimension;		
d) recognize the importance of a separate but aligned GANP and Global Aviation Safety Plan (Doc 10004, GASP);		

SUGGESTED FOLLOW-UP ACTION					
RECOMMENDATIONS ADOPTED BY AN-		AIR NAVIGATION COMMISSION (ANC)			
CONF/13					
That ICAO:					
e) consider the establishment of a GANP Study Group comprised of Member States from all regions and industry to undertake work on future editions of the GANP;		e), f), h) and j): Approve, include in the Air Navigation (AN) work programme, and request the Secretary General to take the appropriate actions related to the development of the GANP for Council approval and subsequent			
f) make available the GANP global strategic level (printable) in the six ICAO languages;		endorsement at the 40th Session of the ICAO Assembly, and manage the establishment and developments of a GANP Study Group and continue the			
g) develop online training and organize regional seminars in conjunction with the planning and implementation regional groups (PIRGs), where possible, for the familiarization of the Sixth Edition of the GANP and support the deployment and implementation of regional and national air navigation plans;		developments associated to the GANP layers.			
	g) and i): Approve, request the Secretary General to take the appropriate actions.	g): Note, and request the Secretary General to take the appropriate actions related to the development of the necessary training material and associated events.			
i) strengthen the relationship between the GASP, the GANP and the newly developed Global Aviation Security Plan (GASeP); and					
		i): Note and request the Secretary General to take the appropriate actions, including the			

SUGGESTED FOLLOW-UP ACTION				
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)		
i) continue to work with States, international organizations, air traffic management (ATM) modernization programmes and other stakeholders on the development of the Sixth Edition of the GANP, as required for subsequent endorsement at the 40th Session of the ICAO Assembly. Recommendation 1.2/1 — Global technical level of the Sixth Edition of the Global Air Navigation Plan (Doc 9750, GANP) That States: a) agree with the proposed change management process to maintain an up-to-date aviation system block upgrade (ASBU) framework with the formal involvement of the ASBU Panel Project Team (ASBU PPT) to improve transparency, consistency and stability; b) welcome the updated ASBU framework and consider the initial version of the basic building block (BBB) framework; That ICAO: c) map the global technical level of the Global Air Navigation Plan (Doc 9750, GANP) to the strategic level;		a) and b): Note.		
d) make available the ASBU and proposed BBB frameworks in an interactive and simplified	c) to k): Note.	c) to k): Approve and include in the AN work programme, request the Secretary General to take the appropriate actions related to the continuation of the update of the ASBUs based on the proposed change management process and the development of the BBBs and continue the development of the		

SUGGESTED FOLLOW-UP ACTION				
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)		
format, as part of the web based GANP Portal, emphasizing the relationship between both frameworks, and between the frameworks and the regional air navigation plan (ANP) elements;				
e) enable the capability, within the GANP Portal, to upload relevant information related to the development and deployment of the ASBU and proposed BBB frameworks in order to allow States, regions and industry to share information;				
f) incorporate a flexible framework for emerging air navigation concepts, such as unmanned aircraft systems (UAS), UAS traffic management (UTM), Big Data and the aviation Internet, into future editions of the GANP;				
g) include a Global Aeronautical Distress and Safety System (GADSS) thread in the Sixth Edition of the GANP in line with ICAO provisions;				
h) consider designing a thread for a Global Aviation Internet Network in the GANP, in coordination with aviation and non-aviation-related industries;				
i) emphasize and enhance a human-centric approach to system design and processes for change management;				
j) support the conducting of trials for new air navigation concepts as outlined in the ASBU framework within the GANP; and				
k) continue to work with States, international organizations, air traffic management (ATM) modernization programmes and other				

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
stakeholders on the development of the global technical level of the Sixth Edition of the GANP for subsequent endorsement at the 40th Session of the ICAO Assembly. Recommendation 1.3/1 – Air navigation roadmaps		
That States:		
	a) and b): Approve and request the Secretary General to bring to the attention of States.	a): Note.
That States and ICAO:		
b) work collaboratively to adopt a performance-based approach for developing performance requirements and acceptable means of compliance to support the implementation of the <i>Global Air Navigation Plan</i> (Doc 9750, GANP) while considering the need for global interoperability; That ICAO:		b): Note and request the Secretary General to take the appropriate actions related to the work on progressively adopting a performance-based approach in the development of future roadmaps for the GANP, and provide guidance to relevant expert groups to ensure that the development of ICAO provisions is aligned with this recommendation.
		with this recommendation.
c) provide air navigation roadmaps, linked to the aviation system block upgrade (ASBU) elements, within the GANP which support: 1) new airspace users and emerging technologies; 2) greater flexibility where possible in the choice of technologies, based on performance needs; and	c) to e) : Note.	c): Approve, include in the AN work programme and request the Secretary General to take appropriate actions related to the collection of information on modernization plans or programmes as inputs to update the GANP, and modify the roadmaps in the GANP to support the identified needs.

SUGGESTED FOLLOW-UP ACTION				
RECOMMENDATIONS ADOPTED BY AN- CONF/13		AIR NAVIGATION COMMISSION (ANC)		
3) earlier adoption of new technologies and operational capabilities as they emerge, linked to the performance needs;				
d) continue to explore practical means to make use of international standards, in particular through the Standards Roundtable work with recognized standards-making organizations, to expedite the efficient development of ICAO provisions; and		d): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to the monitoring of the development of international standards and provide guidance to relevant expert groups to make use of these where they are of practical benefit in the development of ICAO provisions.		
e) expedite the work on the Global Data Link Implementation Strategy and develop harmonized solutions to support air-ground data link communications.		e): Approve and continue to monitor the progress of the existing item in the AN work programme and request the Secretary General to take the appropriate actions related to the development of a framework to expedite the work and provide continuing support to the relevant expert groups.		
Recommendation 1.4/1 — Cost-benefit analysis (CBA) in support of assets deployment				
That States:				
a) perform a cost-benefit analysis (CBA) as part of all required impact assessments, in coordination with air navigation services providers (ANSPs) and among other relevant stakeholders, when defining optimum solutions for improvements in the performance of the air navigation system through the use of the aviation system block upgrades (ASBU) framework;	a) to c): Approve and request the Secretary General to take the appropriate actions and bring to the attention	a) and b): Note.		
b) use a simplified mechanism, if they do not have a process already in place, such as the checklist available on the Global Air Navigation Plan				

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
(GANP) Portal, for CBA of air navigation		
infrastructure investment projects to support		
improvements as described in the ASBU framework; and		
That ICAO:		
c) support the implementation of applicable CBA		
methodologies through dedicated workshops.		
moune de legite une agn de dieure i i el mene per		c): Note and request the Secretary General to
		take the appropriate actions related to the
		organization of events on the subject linked to
		the GANP developments.

A-8

Agenda Item 2: Enabling the global air navigation system — 2.1: Aerodrome operations and capacity; 2.2: Integrated CNS and spectrum strategy; and 2.3: Future provision of aeronautical meteorological service Recommendation 2.1/1 — Aerodrome capacity and efficiency enhancement

That States:		
a) review, as needed, all options to increase aerodrome capacity, including increasing the efficiency of existing aerodrome infrastructure, reviewing the need for investment in new infrastructure and mitigating restrictions in surrounding airspace;	a) and b): Approve and request the Secretary General to bring to the attention of States.	a) and b): Note.
b) establish a plan for the certification of aerodromes under their jurisdiction, in accordance with their national regulations, incorporating the identification of gaps and implementation of solutions to overcome those gaps, including the assessment and development of mitigation measures in areas of non- compliance;		
That ICAO:		
c) progress the work on the development of	c) to f): Note	c): Approve, include in the AN work

SUGGESTED FOLLOW-UP ACTION				
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)		
provisions related to aerodrome design and operations in support of aerodrome capacity and efficiency enhancement;		programme and request the Secretary General to take appropriate actions to continue supporting on-going work by the Aerodrome Design and Operations Panel (ADOP) as well as the work with expert groups to incorporate work items on aerodrome design and operations for aerodrome capacity and efficiency.		
d) explore new areas for enhancing aerodrome capacity and efficiency, including total airport management (TAM), reduced separation Standards, joint civil military aerodromes and other new initiatives and technologies such as folding wing tip (FWT);		d): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to support the relevant expert groups to ensure that the development of enhanced aerodrome capacity and efficiency measures are aligned with this recommendation.		
e) continue to provide assistance to States in the area of aerodrome certification; and		e): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to continue supporting the on-going work and the update guidance material.		
f) monitor developments such as New Experience Travel Technologies (NEXTT) and consider the formulation of provisions, where necessary, to support their implementation.		f): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to monitor industry's developments and engage the ADOP for the formulation of provisions, as necessary.		
Recommendation 2.1/2 — Total airport management (TAM) and airport throughput				
That States:		a): Note.		
a) implement airport collaborative decision-making (A CDM) and, when appropriate, extend A CDM to incorporate total airport management (TAM);	a): Approve and request the Secretary General to bring to the attention of States.			

SUGGESTED FOLLOW-UP ACTION					
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)			
CONF/13					
That ICAO:					
b) update provisions and guidance on A CDM by extending it to TAM with greater integration with air traffic flow management (ATFM);	b) to d): Note	b): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to develop new guidance material on TAM and update existing guidance material on A- CDM, as necessary.			
c) update provisions on wake turbulence and time based separation; and		c): Approve and continue to monitor the progress of the existing items in the AN work programme and request the Secretary General to take the appropriate actions related to continue supporting the work being progressed by expert group (wake turbulence) and time-based separation.			
d) update provisions on reduced runway separation minima.		d): Approve and continue to monitor the progress of the existing items in the AN work programme and request the Secretary General to take the appropriate actions related to provide continuing support to the relevant expert groups to ensure that the development of enhanced aerodrome capacity and efficiency measures are aligned with this recommendation.			
Recommendation 2.2/1 — Long-term evolution of communication, navigation and surveillance systems and frequency spectrum access					
That States:		a): Note.			
a) engage in the spectrum regulatory process to ensure the continued necessary access to and protection of safety-critical aeronautical communications, navigation, and surveillance (CNS) systems;	a) and b): Approve and request the Secretary General to bring to the attention of States.				

SUGGESTED FOLLOW-UP ACTION		
	AIR NAVIGATION COMMISSION (ANC)	
c) to d): Note	b): Note and request the Secretary General to take the appropriate actions related to exploring methods to facilitate safety oversight of the radio frequency environment through the State safety programmes c) and d): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, to establish an ad hoc group consisting of suitable CNS and spectrum experts to launch a study; and consider developing provisions based on the results of the study.	
	c) to d): Note	

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
system (GNSS) to deliver incremental operational benefits andencourage related industry developments;		
b) avoid, in principle, prohibiting the use of available GNSS elements if they perform according to ICAO Standards and Recommended Practices (SARPs) and can meet all safety and regulatory requirements for the intended operations;		
c) avoid mandating equipage or use of any particular GNSS core constellation or augmentation system unless clear operational benefits are offered in return and appropriate consultations have been made with the relevant airspace users;		
d) ensure implementation of ICAO provisions for publication of information related to the use of GNSS elements in aeronautical information publications (AIP);		
e) take timely action to meet the long-term goal whereby every State accepts for lateral navigation use all GNSS elements that are compliant with SARPs, thus creating a positive environment for DFMC GNSS.		
That ICAO:		
f) continue the development of SARPs and guidance material for existing and future GNSS elements in coordination with recognized standards-making organizations; g) further develop provisions intended for States and organizations that provide GNSS services regarding publication of service performance		
	f) to h): Note	f) to h): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to support the updates to the work items of the Navigation Systems Panel (NSP), as required, to implement the recommendations.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
standards, regular performance assessment and timely notification of events that may affect the service; and		
h) develop additional guidance addressing technical and regulatory aspects to assist States in their acceptance and use of existing and future GNSS elements.		
Recommendation 2.3/1 — Future provision of aeronautical meteorological service		
That States:		
a) and international user organizations ensure that adequate expert capacity is applied in the collaborative management and development of aeronautical meteorological services for international air navigation; That ICAO:	a): Approve and request the Secretary General to bring it to the attention of States.	a) : Note.
b) ensure it has sufficient capacity and expertise to progress the work on the development of provisions related to aeronautical meteorology, including the foreseen impact on international air navigation due to climate change, to be described in the Sixth Edition of the <i>Global Air Navigation Plan</i> (Doc 9750, GANP); and	b) and c) : Note	b) and c): Approve, include in the AN work
c) develop implementation assistance, including guidance material, for space weather information service, the provision of globally consistent, phenomena-based hazardous meteorological information, the meteorological component of system-wide information management (SWIM), cost-recovery solutions for regional and global systems, and potential new initiatives to address		programme and request the Secretary General to take appropriate actions regarding to implementation assistance as well as to support updates to the work items of the Meteorology Panel (METP), as required, to implement the recommendations.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
operators; and		
4) monitor the status of implementation of		
IWXXM at State and regional levels.		
Recommendation 2.3/3 — Provision of space		
weather information service meeting the operational needs of users		
That States:		
That States.		
a) encourage the research into operational impacts of space weather phenomena on civil aviation using		
performance-based approaches and establish	a): Approve and request the Secretary General to	a): Note.
requirements for the use of space weather information for		
civil aviation;		
That ICAO:		
b) continue to facilitate coordination between the space		
weather information service providers and aeronautical users to clarify the needs and solutions for improved		
safety and efficiency of civil aviation through the	b): Note	b): Approve, include in the AN work
provision of space weather information and training on the use of the information; and		programme and request the Secretary General to take appropriate actions to support
the use of the information; and		the updates to the work items of the
c) coordinate with other international		Meteorology Panel (METP), as required, to
organizations, such as the International Telecommunication Union - Radio communication		implement the recommendation.
Sector (ITU-R) and the World Meteorological		
Organization (WMO), to facilitate research into operational impacts of space weather phenomena on civil		c): Note.
aviation using performance-based approaches and	take the appropriate actions.	
develop requirements and/or guidance for the use of space weather information for civil aviation.		
space weather information for eivil aviation.		

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
Recommendation 2.3/4 — Development of cost- recovery mechanisms for the provision of aeronautical meteorological information		
That ICAO:		
a) support the need to expeditiously identify how aeronautical meteorological service provision has changed, how it will continue to evolve, and how these changes (including those arising from the impact of climate change on aviation) may affect the recovery of relevant costs associated with service provision on a global, multi-regional, regional, and sub-regional basis; and	a) and b): Approve and request the Secretary General to take the appropriate actions.	a) and b): Note and request the Secretary General to take the appropriate actions related to supporting the updates to the work items of the Meteorology Panel (METP), as required, to implement the recommendations, and take appropriate action as directed by the Secretary General.
b) in close coordination with the World Meteorological Organization (WMO); 1) review deficiencies in the current		
cost- recovery systems;		
2) identify new cost-recovery challenges that have arisen (taking into consideration the issues described in a) above); and		
3) identify possible mechanisms to recover these costs in a manner consistent with <i>ICAO's Policies on Charges for Airports and Air Navigation Services</i> (Doc 9082).		

A-17 C-WP/14837

Appendix

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)

Agenda Item 3: Enhancing the global air navigation system — 3.1: System-wide information management (SWIM); 3.2: Flight and flow information for a collaborative environment (FF-ICE) and trajectory-based operations (TBO); 3.3: Air traffic flow management (ATFM); 3.4: Civil/military cooperation; and 3.5: Other ATM issues

Recommendation 3.1/1 — System-wide information ma	nnagement (SWIM)	
That States:		
a) support developments and implementation of system-wide information management;	a) to d) approve and request the Secretary General to bring it to the attention of States.	a) to d): Note.
b) via the mechanism of the planning and implementation demonstrations, highlighting the operational and economic		
c) share information, lessons learned and o	bservations regarding SWIM development and implement	ntation;
d) develop national implementation plans in alignment <i>Navigation Plan</i> (Doc 9750, GANP) which would include		with the strategy outlined in the Global Air
That ICAO:		
e) while making use of already developed Standards and best practices, continue the development of provisions related to information services, while including relevant guidance, governance aspects, information content and related information exchange models and supporting technical infrastructure and governance for SWIM in	e) to h): Note. programme and request the Secretary General to ta developments through the Information Management to be included in the GANP.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
sufficient detail to ensure safe, efficient and secure globally seamless operations; f) consider the concept of a global SWIM framework as part of the GANP and the aviation system block upgrades (ASBUs); g) consider security-by-design principles when developing interconnected trusted global SWIM frameworks; h) develop provisions related to the harmonization of information exchange models and globally interconnected registries; i) through regional events, and in collaboration with States and industry, promote SWIM and its benefits,	i) and j): Approve and request the Secretary General to take the appropriate actions.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-		AIR NAVIGATION COMMISSION (ANC)
CONF/13		
b) along with stakeholders, work through ICAO to identify and address, not only potential issues, but also opportunities such as the improved management of global traffic flows through a global network-centric approach to ensure the successful development and implementation of trajectory based operations (TBO); c) along with stakeholders, through the mechanism of the planning and implementation regional groups (PIRGs), integrate current implementation efforts with regional transition plans for flight and flow information for a collaborative environment (FF ICE), systemwide information management (SWIM) and TBO; That ICAO:		
d) finalize the global TBO concept and its elements in the Sixth edition of the <i>Global Air Navigation Plan</i> (Doc 9750, GANP) and the aviation systems block upgrade (ASBU) framework; and		
e) develop guidance on transitioning to a globally interoperable TBO environment in the context of ongoing ATM initiatives while addressing all domains of ATM systems and taking into consideration existing and new types of airspace users.		d): Approve, continue to monitor the progress of the existing item in the AN work programme and request the Secretary General to take the appropriate actions related to providing continuing support to Air Traffic Management Requirements and Performance Panel (ATMRPP). e): Approve, refer to an appropriate expert group and request the Secretary General to take the appropriate actions related to working with expert groups to incorporate work items on TBO and execute the work as approved by ANC

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13 Recommendation 3.2/2 — Flight and flow information for a collaborative environment (FF-ICE)		
	a): Approve and request the Secretary General to bring to the attention of States.	a): Note.
That ICAO:		
b) develop a robust transition strategy to minimize any potential negative impacts during the mixed mode operations of current ICAO flight plan processing and FF ICE; and	b) and c): Note	b) and c): Approve and continue to monitor the progress of the existing items in the AN work programme, and request the Secretary General to take the appropriate actions related to providing continuing support to the Air Traffic
c) continue its work concerning the investigation of necessary information exchange content and supporting processes for the next evolution of FF ICE.		Management Requirements and Performance Panel (ATMRPP).
Recommendation 3.3/1 — Network operations (NOPS)		
That States:		
a) implement collaborative decision-making (CDM) processes in support of effective airspace management in the provision of air navigation services, including cross border operations and resource management;	a) and b): Approve and request the Secretary General to bring to the attention of States.	a) and b): Note

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
b) plan and implement, according to their operational needs, operational improvements related to network operations in a coordinated manner within and across regions;		
That ICAO:		
c) develop further provisions and guidance material on air traffic flow management (ATFM), supporting a global collaborative network management in support of trajectory-based operations (TBO); and	c) and d): Note	c): Approve and continue to monitor the progress of the existing item in the Air Navigation work programme, and request the Secretary General to take the appropriate actions related to providing continuing support
d) support, through its Regional Offices, the sharing of best practices and the advancement of technical cooperation agreements between States in order to implement ATFM.		to the Air Traffic Management Operations Panel (ATMOPSP). d): Approve, include in the AN work programme and request the Secretary General to take appropriate actions related to
Recommendation 3.4/1 — Civil- military collaboration		coordination with the Regional Offices.
That States:		
a) actively collaborate with their military authorities, including at the regional level, and encourage greater civil-military interoperability and appropriate use of performance equivalence;		a) and b): Note
b) continuously inform their military authorities of the improvements to air navigation capacity and efficiency, safety, cyber threats and system resilience put forth by ICAO and advocate collaboration with ICAO at the global and regional levels;	a) and b): Approve and request the Secretary General to bring to the attention of States.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
That ICAO:		
c) identify potential opportunities for civil-military collaboration, develop a mechanism to collaborate with the military community early in the development of global provisions and guidance, and establish guidance for collaboration with the military community at global and regional levels; d) incorporate the military dimension, including civil military cooperation and collaboration, in future editions	c) to f): Note	c) and e): Approve, include in the AN work programme and request the Secretary General to take appropriate action related to the development of a framework for undertaking collaboration with the military community and provide continuing support to the relevant expert group. d): Approve and request the Secretary
of the <i>Global Air Navigation Plan</i> (Doc 9750, GANP); e) consider, with urgency and in collaboration with the military community, the interoperability and		General to take appropriate actions as part of the ongoing work to develop the Sixth Edition of the GANP.
governance principles for the military community in system-wide information management (SWIM) and in the development of the ICAO trust framework; and		
f) consider, where possible, the inclusion of civil- military cooperation and collaboration subjects at ICAO events, and highlight the participation of military authorities in relevant State letter invitations.		f): Approve and request the Secretary
Recommendation 3.4/2 — Civilmilitary cooperation implementation		General to take the appropriate actions to consider the recommendation during the planning and organization of ICAO events on
That States: a) encourage their military authorities to cooperate and coordinate with civil aviation authorities and air navigation services providers (ANSPs) on airspace use, including airspace access		a global and regional level.
		a): Note
	a): Approve and request the Secretary General to bring to the attention of States.	

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
requirements, to achieve the most efficient use of airspace based on actual needs and, when possible, avoid permanent airspace segregation; That ICAO: b) promote civil-military coordination and cooperation of best practices, and provide forums and other opportunities, such as regional symposiums, for States to exchange best practices; and c) explore opportunities to provide guidance to enhance safety at joint civil-military aerodromes and to assist States in the promulgation of clear procedures for airspace access requirements.	b) and c): Note	b): Approve, include in the AN work programme and request the Secretary General to take appropriate actions related to convening regional events to promote the implementation of civil/military coordination and cooperation and the exchange of best practices. c): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to incorporation of work items related to civil-military coordination and cooperation or update existing work items. Also, request the Secretary General to take the appropriate actions related to developing guidance materials, and provide continuing support to ADOP to progress this action, and further provide guidance to expert groups to ensure that development of guidance on airspace access promulgation is aligned with this
Recommendation 3.5/1 — ICAO location indicator system and database of significant points		recommendation.
That States:		
a) and industry stakeholders, urgently complete the population of the ICAO International Codes and Routes Designators (ICARD) database with all five letter name codes (5LNC) used worldwide to		a) and b): Note
	a) and b): Approve and request the Secretary General to take appropriate action.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-		AIR NAVIGATION COMMISSION (ANC)
ensure the accuracy of the database; b) and industry stakeholders, ensure that whenever a 5LNC that is used for military purposes is published in an ICAO Aeronautical Information Publication (AIP) and consequently coded into aircraft flight management system (FMS), such 5LNCs are coordinated through the ICARD process; That ICAO: c) continue to address the limitations of both location indicator and 5LNC availabilities in the short term and determine a long term solution; d) consider, when developing such solutions, the need for global harmonization and interoperability; e) continue with its efforts to improve awareness and training on the use of ICARD in the regions that do not actively use ICARD; f) continue to work towards removing duplicated 5LNCs and sound-like conflicts; and g) implement improvements to the ICARD database functionality, including the use of maps depicting flight information regions (FIRs), more information regarding 5LNC history and sound- like proximity checks for codes held in reserve but not yet allocated to a region. Recommendation 3.5/2 — Coordinated crisis management That States:		c) to g): Approve, include in the AN work programme and request the Secretary General to take appropriate actions related .to continuing the work on location indicators and 5LNC to ensure sustainable solutions for global harmonization and interoperability.

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
 a) along with industry stakeholders, engage in an active and coordinated manner when dealing with crisis management, enhanced preparedness for disasters, contingency planning and post crisis reviews; and That ICAO: b) develop guidance on a coordinated approach to crisis management, including subjects such as business 	a): Approve and request the Secretary General to bring to the attention of States.	a): Note
continuity, the role of air traffic flow management (ATFM) in support of crisis management and the importance of post crisis reviews. Recommendation 3.5/3 — Certification of ANSPs	b): Note	b): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to support the appropriate expert group in the development of the guidance material.
That ICAO investigate the potential benefits, balanced against the associated costs, of the development of provisions and guidance material for certification of air navigation services providers (ANSPs).		
Recommendation 3.5/4 — True North That ICAO conduct a detailed study into the technical, operational, and economic feasibility of changing to a "True North" reference system.	Note	Approve and refer to an appropriate expert group, as well as request the Secretary General to take the appropriate actions related to facilitating the assessment and incorporate work items into the AN work programme, as necessary, and execute the work as approved by ANC.
	Note	Approve and refer to an appropriate expert group as well as request the Secretary General to take the appropriate actions related to facilitating the assessment and incorporate work items into the AN work programme, as necessary, and execute the work as approved by ANC.

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
Agenda Item 4: Implementing the global air navigation economic benefits brought by aviation; 4.2: Implementing and 4.4: Implementing search and rescue (SAR) processes Recommendation 4.1/1 — State Natio Development Plans	BBBs and minimum service Standards; 4.3: Implementiand procedures	
That States:		
 a) establish a defined connection between their air navigation and safety plans, as well as other relevant national plans; b) include clear references to the United Nations Sustainable Development Goals (UN SDGs) in their air navigation and safety plans, as well as in other relevant national plans, with the objective of showcasing the contribution of aviation to the UN SDGs and national economies; 	a) and b): Approve and request the Secretary General to bring to the attention of States.	a) and b): Note
That ICAO:		
c) engage with States to promote the importance of aviation development, taking into consideration environmental and socio-economic aspects, and to include aviation within their relevant national plans, and, as necessary, national budgeting, which might be vital to unlocking funding for aviation needs; and d) develop guidance for States to include aviation within their relevant national plans taking into consideration global and regional planning.	c) and d): Approve, and request the Secretary General to take appropriate action.	c) and d): Note.
Recommendation 4.2/1 — Implementation of essential air navigation services		
That States: a) consider the use of more advanced technologies and procedures, in coordination with	a) and b): Approve and request the Secretary General to bring to the attention of States.	a) and b): Note

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-		AIR NAVIGATION COMMISSION (ANC)
	c) to g): Approve, and request the Secretary General to take appropriate action.	c) to g): Note.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
assistance to States for the provision of essential air navigation services as identified by the PIRGs and as		
reflected in State national air navigation plans; and		
g) urge the aviation manufacturing industry to create a testing environment for States to justify procurement decisions which guarantee interoperability and system functionality within local specific environments, as a follow-up to the provision of essential air navigation services.		
Recommendation 4.3/1 — Improving the performance of the air navigation system		
That States:		
a) adopt and adapt as needed, the six step performance management process for the planning and implementation of air navigation improvements and reflect this process in their national air navigation plans;	a) to c): Approve and request the Secretary General to bring to the attention of States.	a) to c): Note, and request the Secretary General to take the appropriate actions when addressing a), in the communication of the
b) align their national air navigation plans with regional plans to attain a globally harmonized performance management process and support the achievement of global performance objectives;		actions addressed to States, to reference the six step performance management process described in the <i>Manual on Global Performance of the Air Navigation System</i> (Doc 9883).
c) support ICAO in promoting the No Country Left Behind (NCLB) initiative and reaffirm their commitment to the development of timely and accurate national air navigation plans aligned with regional and global plans;		

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
That ICAO:		
d) encourage the planning and implementation regional groups (PIRGs) to embrace a performance-based approach for implementation and adopt the six step performance management process, as described in the <i>Manual on Global Performance of the Air Navigation System</i> (Doc 9883), by reflecting the process in Volume III of all regional air navigation plans;		d): Note and request the Secretary General to take the appropriate actions related to updating the eANP Vol III template to reflect the sixstep performance management process as described in the <i>Manual on Global Performance of the Air Navigation System</i> (Doc 9883) and brief the Regional Offices. e) and f): Approve, include in the AN work programme and request the Secretary
e) continue to expedite the work on performance indicators related to the <i>Global Air Navigation Plan</i> (Doc 9750, GANP), including their review by an appropriate group of performance experts, and consider establishing such an expert group under the Global Air Navigation Plan (GANP) Study Group; and	e) and f): Note.	General to take appropriate actions to establish a group of experts to continue the development of GANP performance framework under the GANP SG and task the ASBU Panel Project Team (PPT) to identify possible operational incentives to promote the implementation of operational improvements to modernize the ATM system.
f) examine possible operational incentives in the development of new air traffic management (ATM) concepts.		
Recommendation 4.3/2 — Regional and national collaboration and implementation initiatives		
That States:		a) to f): Note.
 a) adhere to the implementation commitments agreed at the regional level, and reflected in the regional air navigation plans, in order to effectively deploy regional initiatives; b) cooperate among themselves and with the 	a) to f): Approve and request the Secretary General to	
industry to strengthen State implementation	bring to the attention of States.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
provisions within the framework of the No Country Left Behind (NCLB) initiative;		
c) plan the modernization of their air navigation system together with all stakeholders, based on local needs and available resources, taking into account regional and global commitments;		
d) recognize the important contribution being provided by the Africa-Indian Ocean (AFI) Plan towards the implementation of an effective regional framework for the African Air Navigation Services Provider (ANSP) Peer Review Programme to enhance the safety and efficiency of air transport operations in Africa;		
e) support the implementation of ICAO initiatives to improve the efficiency and effectiveness of regional processes;		
f) encourage the participation of high level authorities in the decision making process for planning and implementation;		
That ICAO:		
g) encourage States, regions and international organizations to support cross-border, interregional and intra-regional collaborative planning, activities and projects, supporting effective, efficient and expeditious harmonization;		
h) continue to provide support to the African air navigation services provider (ANSP) Peer Review Programme;	g) and h): Note	g) and h): Approve and request the Secretary General to take appropriate actions to continue supporting States and regions on the implementation of air navigation operational improvements and encouraging collaboration and coordination among States, regions and stakeholders.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
i) urge States, in coordination with the industry, to support the implementation of regional priorities;	i) and j): Approve and request the Secretary General to take appropriate action.	i) and j): Note.
j) support the implementation of an action plan for the development of aviation infrastructure in Africa under the Comprehensive Regional Implementation for Aviation Safety in Africa (AFI Plan);		
k) encourage States and organizations to continue sharing surveillance data to improve safety and efficiency		
in air traffic management;		k): Approve and request the Secretary General to take the appropriate actions related to supporting States and regions on the implementation of air navigation operational improvements and encouraging collaboration and coordination among States, regions and stakeholders.
l) encourage regional collaboration and		
coordination as well as the use of incentives when planning the implementation of operational improvements to enable all stakeholders to achieve the benefits expected from the implementation; and	l) and m): Approve and request the Secretary General to take appropriate action.	l) and m): Note.
m) encourage African States and industry to continue to work together within the African Flight Procedure Programme (AFPP).		
Recommendation 4.4/1 — Search and rescue (SAR) and the Global Aeronautical Distress and Safety System (GADSS)		
That States:		
a) through the planning and implementation regional groups (PIRGs), examine the possibilities of combining their respective		
		a) to c): Note.
	a) to c): Approve and request the Secretary General to bring to the attention of States.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
		work programme.
h) review the need for a requirement for a		
performance-based Standard to accurately determine the		
location of the end of flight, particularly over terrain, in		
the scope of efficient SAR operations; and		
i) include the general organization of SAR in		
future editions of the GANP.		
	i): Note.	i): Approve, include in the AN work
		programme and request the Secretary
		General to take the appropriate actions
		related to inclusion of GADSS as a thread in
		the GANP.

Agenda Item 5: Emerging issues — 5.1: Operations above Flight Level 600; 5.2: Operations below 1000 feet; 5.3: Remotely piloted aircraft system (RPAS); 5.4: Cyber resilience; and 5.5: Other emerging issues impacting the global air navigation system including unmanned aircraft systems (drones), and supersonic and commercial space operations

Recommendation 5.1/1 — Operations above flight level	600	
That States:		
a) with relevant experience in higher airspace operations, share, through ICAO where appropriate, their experience and expertise with other States and provide assistance to other States on the regulatory aspects of these operations;	a) and b): Approve and request the Secretary General to bring to the attention of States.	a) and b): Note.
b) expected to benefit from higher airspace operations,	agree to consider risk based operational trials in their air	rspace;
That ICAO:		
c) support ongoing higher airspace operations by providing guidance and, as necessary, other provisions on the regulatory aspects of these operations;	c) to g): Note. programme and request the Secretary General to tak of guidance material as	c): Approve, include in the AN work te appropriate actions related to the development

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
		necessary.
d) work with States and industry to share information on current and forecasted needs for higher airspace operations, to identify issues affecting the global air navigation system and to proactively address harmonization for these operations;		d): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to launching an online platform for sharing information.
e) consider establishing a multidisciplinary group of experts to consider needed criteria, operational issues, and operator and provider responsibilities for operations in higher airspace; f) develop a performance based global framework for higher airspace operations considering current and		e), f) and g): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to putting forward for ANC consideration a proposal on form and terms of reference for the group including the development of the
future work in emerging technologies, for example, in the areas of information management and sharing, strategic planning, separation and environmental Standards, situational awareness and security; and		performance-based framework for higher airspace operations.
g) ensure that the framework includes flights transitioning through controlled airspace and to and through airspace above FL600, as necessary.		
Recommendation 5.2/1 — Very low altitude operations		
That States:		
a) collect and share information regarding very low altitude operations, including on unmanned aircraft systems traffic management (UTM) systems, autonomous operations initiatives and tactical risk assessment models;		
		a) and b): Note.
	a) and b): Approve and request the Secretary General to bring to the attention of States.	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
RECOMMENDATIONS ADOPTED BY ANCONF/13 b) ensure that UTM systems are interoperable with existing air traffic management (ATM) systems; That ICAO: c) contribute to the development of operational solutions and guidance, including on UTM systems, autonomous operations and tactical risk assessment models, to support	council. e) to l): Note.	c) to e): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to organize an annual DRONE ENABLE symposia with focus on prioritized topics; and to review the TORs of the expert group as well as to advance the UTM framework document online
(SARPs), guidance or "best practices" related to		programme and request the Secretary General to take the appropriate actions related to convening an expert group to draft Annex 2 Standards and supporting guidance material.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
UTM, including autonomous operations, after States and regions have had sufficient time to test and validate concepts;		General to take the appropriate actions related to monitoring UTM and autonomous operations demonstrations, with a view to produce Standards and Recommended practices when sufficient maturity is achieved.
h) encourage UTM providers to implement the highest level of cyber security standards that are consistent with aviation community expectations and guidelines for very low altitude airspace operations;		h): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to progressing the work on the trust framework and focus on cyber threats in upcoming DRONE ENABLE symposium.
i) support and coordinate the implementation of core airspace management services including, but not limited to, geofencing and geo-referencing, as well as ensuring ATM and UTM interfaces;		i): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to progressing the work on the UTM framework document online.
j) actively cooperate with States at the regional level for the development and implementation of UTM;		l): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to encouraging regional activities and task forces related to UTM.
k) continue the development of a global aircraft registration network (ARN); and		k): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to continuing the development and deployment of the ARN.
l) continue conducting awareness and educational activities amongst users, and facilitate the exchange of information amongst States regarding their UAS regulations.		l): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to the organization of symposia and workshops.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13 Recommendation 5.3/1 — Remotely piloted aircraft systems (RPAS)		
That States: a) collect and share information on remotely piloted aircraft systems (RPAS) operations; b) actively engage industry stakeholders to collect and provide technical data to ICAO on RPAS operations needed to support the development of SARPs for RPAS, including those SARPs required for detect and avoid (DAA) and C2	a) to c): Approve and request the Secretary General to bring to the attention of States.	a) to c): Note.
Link; c) support the cross-disciplinary development of RPAS-related SARPs and guidance material across expert groups of ICAO; That ICAO: d) continue development of the regulatory framework necessary to support the integration of RPAS into non-segregated airspace and aerodromes, and facilitate related implementation roll-out activities;		d) and e): Approve, and continue to monitor the progress of the existing item in the AN work programme, and request the Secretary General to take the appropriate actions related to continuing support to the work of the RPAS Panel and update the RPAS workshop content, develop licensing/training
e) continue developing guidance material to support safe RPAS operations, to facilitate implementation through regional training activities, to conduct awareness and educational activities amongst users, and to facilitate the collection and sharing of information amongst States regarding their RPAS operations and		guidance material and roll-out activities and conduct symposia.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13		AIR NAVIGATION COMMISSION (ANC)
regulations;		
f) assess the work underway in its expert groups and identify additional activities required to implement RPAS-related SARPs and guidance such as DAA and C2 Link;		f) and g): Approve, include the AN work programme and request the Secretary General to take appropriate actions to coordinate with the ICAO expert groups and provide information during the 40th Session of the ICAO Assembly.
g) provide an update on a fully integrated approach for ICAO's RPAS-related work programme to the 40th Session of the Assembly in 2019;		are resteniory.
h) in coordination with States and military stakeholders, propose the best selection for the establishment of a secondary surveillance radar (SSR) code for lost C2 Link events within appropriate Annexes, Procedures for Air Navigation Services (PANS), regional air navigation plans and other relevant documents; and		h): Approve, include the AN work programme and request the Secretary General to take the appropriate actions related to conducting a State survey on use of 7400 or alternate SSR code.
i) consider the use of gender-neutral RPAS-related terminology, following appropriate research.		
Recommendation 5.4/1 — Cyber resilience That States:		i): Approve, and request the Secretary General to take the appropriate actions related to considering conducting the
a) in coordination with stakeholders, provide the necessary support for ICAO to evolve the global trust framework as an enabler of flight operations in a digitally connected environment;		appropriate research.
	a) to e): Approve and request the Secretary General to bring to the attention of States.	a) to e): Note.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
c) recognize the need to be prepared to respond to cyber events;		
d) in coordination with industry and international organizations, work with ICAO to increase awareness of cyber threats and system resilience processes, and coordinate cyber-related incident information sharing and training activities;		
e) recognize the need to share information related to cyber events with other States and international organizations through appropriately designated channels;		
That ICAO:		
f) establish a formal project involving States, international organizations and relevant stakeholders for the urgent and transparent development of a globally harmonized aviation trust framework through a group of experts. Priority should be given to governance principles; g) coordinate with both aviation and non-aviation technical experts in the development of the trust framework, and in particular with the governing bodies of the Internet;	Secretary General to take appropriate action.	f) to n), except h): Note, and request the Secretary General to take the appropriate actions related to: - Develop the scope and terms of reference aiming the establishment of a group of experts to continue the development of the trust framework concept with participation of aviation and non-aviation experts from other industries influencing the aviation ecosystem such as the Internet; - Develop a strategy for cyber resilience and the sharing of information related to cyber incidents; - Promote tabletop exercises to prepare aviation stakeholders to face disruptive cyber incidents; and - Develop an integrated risk management approach to cyber resilience and respective

	SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)	
CONF/13		training material.	
h) incorporate the trust framework into the <i>Global Air Navigation Plan</i> (Doc 9750) in an appropriate manner to highlight its urgent need, its importance and to improve its visibility;	h): Note.	h): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to support the development of appropriate material.	
i) develop, as a matter of priority, and promote high-level policies and management frameworks for cyber resilience to help mitigate cyber threats and risks to civil aviation based on international industry standards and preferably aligned or integrated with existing management systems;			
j) recognize the need for the aviation community to be prepared for and be able to respond to cyber events;			
k) encourage States and international organizations to facilitate information sharing through appropriately designated channels at the global and regional levels;			
l) promote multidisciplinary State and relevant aviation and non-aviation stakeholder collaboration on cyber information sharing;			
m) promote tabletop exercises and maintain a repository of lessons learned and scenarios available to Member States; and			
n) promote a unified framework for an integrated risk management approach (safety, security, environment, financial, etc.) to cyber resilience, taking into account all hazards and threats to the air navigation system.			

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
Recommendation 5.5/1 — Supersonic transport (SST)		
That States:		
a) monitor the developments related to the re- emergence of the supersonic transport (SST) sector and, when necessary, engage their regulatory mechanisms to ensure that the necessary policies are in place before supersonic operations become routine;	a): Approve and request the Secretary General to bring to the attention of States.	a): Note
That ICAO:		
b) note the developments related to the re-emergence of the SST sector, including the work related to Appendix G of Assembly Resolution A39-1, Consolidated statement of continuing ICAO policies and practices related to environmental protection — General provisions, noise and local air quality; and c) monitor the developments and, when necessary, engage regulatory mechanisms to ensure that the necessary policies are in place before supersonic operations become routine.		b): Note.
Recommendation 5.5/2 — Commercial space transport (CST) In recognizing the issues related to commercial space transport (CST) operations potentially affecting international civil aviation, including the safe accommodation of CST operations in airspace and the joint use of aerodromes and other aviation		c): Approve and continue to monitor the progress of the existing item in the AN work programme, and request the Secretary General to take the appropriate actions related to monitoring the developments in this sector and provide information to the relevant ANC Panels which may initiate the Job Card process.
of the SST sector, including the work related to Appendix G of Assembly Resolution A39-1, Consolidated statement of continuing ICAO policies and practices related to environmental protection — General provisions, noise and local air quality; and c) monitor the developments and, when necessary, engage regulatory mechanisms to ensure that the necessary policies are in place before supersonic operations become routine. Recommendation 5.5/2 — Commercial space transport (CST) In recognizing the issues related to commercial space transport (CST) operations potentially affecting international civil aviation, including the safe accommodation of CST operations in airspace and the	b): Approve, and request the Secretary General to take appropriate action. c): Note.	c): Approve and continue to monitor the progress of the existing item in the AN work programme, and request the Secretary General to take the appropriate actions related to monitoring the developments in this sector and provide information to the relevant ANC Panels which may initiate the

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
infrastructure:		
That States:		
a) and stakeholders support ICAO activities in the CST field through the sharing of relevant expertise; b) share guidance material, best practices and national provisions related to commercial space operations through controlled airspace, including risk models and the application of relevant safety management principles;	a) and b): Approve and request the Secretary General to bring to the attention of States.	a) and b): Note.
That ICAO:		
c) coordinate its work related to CST operations with the United Nations Office for Outer Space Affairs; and	c): Approve, and request the Secretary General to take	
d) establish a means to facilitate the sharing of information as applicable to the interaction between aviation and commercial space transport.	appropriate action. d): Note.	c): Note, and request the Secretary General to take the appropriate actions related to launching a web site for collaboration and organize a Joint ICAO/UNOOSA workshop. d): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to put forward a proposal
Recommendation 5.5/3 — Standard-making processes		to ANC for consideration on form and terms of reference for a Joint Working Group on
ICAO should review and enhance its Standard-making processes in order to meet the requirements of the rapid pace of technological developments.		this subject with UNOOSA.
	Note.	
		Approve, include in the AN work programme and request the Secretary General to take appropriate actions to provide a proposal to ANC for consideration.

	SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)	
Agenda Item 6: Organizational safety issues - 6.1 Strategic plan — 6.1.1: Vision and overview of the Global Aviation Safety Plan (GASP), 2020 2022 edition; 6.1.2: Enabling safety performance monitoring; goals, targets and indicators in the 2020-2022 edition of the GASP; and 6.1.3: Global Aviation Safety Oversight System (GASOS) Recommendation 6.1/1 — Draft 2020-2022 Edition of the Global Aviation Safety Plan (Doc 10004, GASP)			
That States:			
a) agree in principle with the draft 2020-2022 edition of the <i>Global Aviation Safety Plan</i> (GASP, Doc 10004), with the inclusion of GASP goals and targets; and	a): Approve and request the Secretary General to bring to the attention of States.	a): Note.	
That ICAO:			
b) take into consideration input from the Conference, the questionnaire and the future work of the GASP Study Group for subsequent endorsement of the 2020-2022 edition of the GASP at the 40th Session of the ICAO Assembly.	b): Note. programme and request the Secretary General to tal revision by the GASP-SG of draft GASP (Doc 10004) endorsement.		
Recommendation 6.1.3/1 — The global aviation safet	y oversight system (GASOS)		
That States:			
a) support the development of a global aviation safety oversight system (GASOS);	a): Approve and request the Secretary General to bring it to the attention of States.	a): Note.	
That ICAO:			
b) continue developing an ICAO GASOS comprised of voluntary and standardized competency assessments of safety oversight organizations for recognition of safety oversight	b) to f): Note. programme and request the Secretary General to ta continuation of the	b): Approve, include in the AN work ke appropriate actions, including the	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
functions provided to States, including its legal framework and assessment mechanisms while ensuring those States maintain their obligations and responsibilities under the <i>Convention on International Civil Aviation</i> (Doc 7300);		development of GASOS in accordance with the implementation plan.
c) develop appropriate guidance for States to support the delegation of safety oversight functions and monitoring of safety oversight organizations accepting delegations;		c): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions, which should include continuing the development of the GASOS manual and deliver GASOS related workshops to support the delegation of safety functions by States.
d) design adequate interfaces between GASOS and other ICAO programmes and to avoid duplication of activities between GASOS and the Universal Safety Oversight Audit Programme Continuous Monitoring Approach (USOAP CMA); e) present GASOS for endorsement at the 40th		d): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions, including documenting interfaces with other ICAO programmes in the GASOS processes and procedures.
Session of the ICAO Assembly if the liability, governance and cost-benefit analysis issues and other concerns raised by the Conference have been addressed; and		e): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, subject to addressing the issues and concerns in the Recommendation, and request the Secretary General to take the appropriate actions related to the following: Regarding Liability and legal issues: Legal Bureau to complete a review of the GASOS legal framework through an ad hoc group and provide a report, with support from the GASOS-SG, as needed.
		Regarding Governance issues: The GASOS-SG breakout group on "Risks" to review the GASOS Manual addressing this issue.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
		Regarding Cost-benefit analysis: Using the results of the GASOS business case and survey, ICAO is to undertake a cost-benefit analysis considering different scenarios.
f) encourage safety oversight organizations, including regional safety oversight organizations (RSOOs), State civil aviation authorities (CAAs) and other regional State-based mechanisms, to participate in GASOS in order to expand and enhance the safety oversight support provided to States.		f): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions, which should include continuing to communicate strategies as per the GASOS communications strategies plan, including a GASOS website, flyers, videos, regional workshops and seminars etc.

Agenda Item 6: Organizational safety issues - 6.2 Implementation of safety management — 6.2.1: State safety programmes (SSPs); 6.2.2: Safety management systems; and 6.2.3: Developing safety intelligence

Recommendation 6.2/1 — Supporting effective safety management implementation

Recommendation 6.2/1 — Supporting effective safe	ty management implementation
That States:	
a) and international organizations identify focal points for the submission of practical examples and tools to be reviewed, validated and posted on the ICAO safety management implementation (SMI) website as a means of sharing successful experiences with the aviation community;	a) and b): Approve. a) and b): Note.
b) and international organizations support the ICAO SMI and tools for the purpose of sharing with other Member Sta	website by providing practical examples of their respective safety management practices, methodologies tes;
That ICAO:	
c) commit to the ongoing development, promotion	c) to i), except, e), g) and h): Note. c): Approve, include in the AN work

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
and maintenance of the safety management implementation (SMI) website in order to ensure active use of the tool and relevance of content to the aviation community;		programme and request the Secretary General to take appropriate actions, which should include updating the development plan for the SMI website to include feedback from the AN-Conf/13.
d) devise strategies to support the submission and validation of practical examples for the SMI website in the six ICAO working languages (English, Arabic, Chinese, French, Spanish, and Russian) and ensure the translation of the content posted on the website into the six ICAO working languages;		d): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include devising a strategy, process and plan both administrative and for translation.
e) develop initiatives tailored to each region with inputs from the regional aviation safety groups (RASGs) in support of the goals and targets of the Global Aviation Safety Plan (GASP) and Global Air Navigation Plan (GANP) with a focus on the effective implementation of State safety programmes (SSPs) and safety management systems (SMSs) at the State and service provider levels, respectively, including the development of the required safety management competencies and/or the delegation to States, regional safety oversight organizations (RSOOs) and regional accident and incident investigation organizations (RAIOs);	e), g) and h): Approve, and request the Secretary General to take appropriate action.	e): Note and request the Secretary General to take the appropriate actions related to the coordination with regional offices to develop tailored initiatives.
f) further support the development of appropriate harmonized safety performance indicators (SPIs) at the regional, State and service provider levels and explore the development of means to monitor the effectiveness of SSP and SMS on a more real-time basis;		f): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing to work with expert groups for the development of SPIs and to develop a project initiation document for the monitoring of SSP and SMS on a more real-time basis.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
g) in collaboration with States, RSOOs and industry explore more powerful methods of identifying hazards and managing risk, suitable for complex socio-technical systems such as aviation and adaptable, regardless of the type of risk;		g): Note and request the Secretary General to take the appropriate actions related to working with the Safety Management Panel (SMP) to explore advanced methods of hazard identification and risk management.
h) in collaboration with States, RSOOs and industry explore the benefits of a unified framework for integrated risk management (safety, security, environment, etc.) taking into account the evolution of ISO management standards; and		h): Note and request the Secretary General to take the appropriate actions related to internal coordination between the Air Navigation Bureau and the Air Transport Bureau, and work with the SMP to explore the benefits of a unified framework for integrated risk management.
i) update, for adoption by the 40th Session of the ICAO Assembly, Assembly Resolutions related to safety management to reflect Amendment 1 to Annex 19 — Safety Management, as well as Amendment 15 to Annex 13 — Aircraft Accident and Incident Investigation, with consideration given to an overarching safety management Assembly Resolution to complement Assembly Resolution A39 12, Appendices A and B, related to the Global Aviation Safety Plan (GASP) and Global Air Navigation Plan (GANP) in order to focus the attention of States on key aspects of achieving effective SSP implementation.		i): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions which should include draft updated Assembly Resolutions related to safety management for adoption by the 40th Session of the ICAO Assembly.
Recommendation 6.2.1/1 — State safety programmes (SSPs)		
That States:		
a) identify and address the need to build capacity at the State level for the management of change; and		
b) share their experiences in civil-military		a) and b): Note.

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
cooperation for State safety programmes (SSPs) implementation in conferences, meetings and/or on the safety management implementation (SMI) website; That ICAO:		
c) review the acceptable level of safety performance (ALoSP) concept taking into consideration the experience of States; d) review the need for additional guidance on the management of change at the State level; and	c) to e): Note.	c) and d): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include working with the SMP to execute the work as approved and include management of change as a topic in the
e) ensure that appropriate emphasis is placed on safety management in the update of Appendix I, Coordination and cooperation of civil and military air traffic, of Assembly Resolution A38/12, Consolidated Statement of continuing ICAO policies and associated practices related specifically to air navigation.		development of material for workshops and training. e): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions, which should include updating the Appendix I of Assembly Resolution A38/12 related to coordination and cooperation of civil and military air traffic for adoption by the 40th
Recommendation 6.2.3/1 — Developing safety intelligence		Session of the ICAO Assembly.
That States:		
a) and international organizations collaborate on the development of trust sharing networks and adhere to the protective provisions as provided in Amendment 1 to Annex 19 — Safety Management; and	a): Approve and request the Secretary General to bring it to the attention of States.	a): Note.

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
That ICAO:		
1 / 11	b): Note.	b): Approve, include in the AN work
the provisions for the protection of safety data, safety information and related sources in Amendment 1 to		programme and request the Secretary General to take appropriate actions, which
Annex 19.		should include working with Safety
		Information Protection Implementation Group
		(SIP-IG) to identify and develop appropriate support initiatives.
Agenda Item 6: Organizational safety issues - 6.3: Monitor		
(USOAP) continuous monitoring approach (CMA); and 6.3		
Recommendation 6.3/1 — Universal Safety Oversight	Audit Programme (USOAP) Continuous Monitorin	g Approach (CMA)
That States:		
)4)	NA NA
a) continue to engage fully in the Universal Safety Oversight Audit Programme (USOAP) Continuous	a) to c): Approve and request the Secretary General to bring to the attention of States	a) to c): Note.
Monitoring Approach (CMA);		
b) complete their self-assessments of the USOAP Protoco	Questions (PQs) in a detailed and reliable manner and	keep them up- to- date as needed;
c) enhance cooperation and sharing of experiences in	the implementation of USOAP CMA, in particular at the	ne regional level;
That ICAO:		
d) continue to evolve the USOAP	d) to i): Note.	d) to h): Approve, include in the AN work
CMA	programme and request the Secretary General to tal	
methodology, processes and tools;	presenting a working paper with GEUSR recommendate requesting	tions to the 40th Session of the ICAO Assembly

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
		Assembly approval of said recommendations and work on implementing recommendations.
e) as a matter of priority, implement the recommendations and observations of the Group of Experts for USOAP CMA Structured Review (GEUSR) and, in particular, make available to States the set of indicators forming part of the State safety risk profile		
f) ensure that pertinent information is not lost when reducing the total number of USOAP CMA PQs, especially with respect to PQs not directly related to safety oversight, which should be included in the appropriate ICAO audit mechanism;		
g) implement as a matter of priority the GEUSR recommendations regarding the structured revision of the PQs (Group A recommendations) and the identification of 'Priority PQs' (Group B recommendations);		
h) ensure the continuous monitoring of the States remains robust, relevant and up-to-date; and		
i) establish a study group before the 40th Session of the ICAO Assembly for the further evolution of the USOAP CMA, beyond the GEUSR recommendations, to address means to avoid duplication of efforts and find synergies to enhance the efficiency of the USOAP CMA while maintaining safeguards to guarantee the independence, universality, standardization and global acceptance in the implementation of the programme.		i): Approve and request the Secretary General to take appropriate actions.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
Agenda Item 7: Operational safety risks — 7.1: Facilita management; 7.2: Operational safety risks at the global, reg Other implementation issues Recommendation 7.1/1 — Data-driven decision mal	gional and national levels, and the role of RSOOs and R	
That States:		
a) implement data-driven decision-making processes, taking into account the ICAO safety and air navigation indicators, within their safety and air navigation activities to build data analysis capacity;	a) to e): Approve and request the Secretary General to bring to the attention of States.	a) to e): Note.
b) consider using ICAO's air navigation analysis solutions ICAO Safety Information Monitoring System (SIMS) proje		safety programmes (SSPs), and joining the
c) exchange safety and air navigation information wi	th other Member States through data analysis tools such	as SIMS in support of safety risk management;
d) continue joint development of safety risk assessment models that support and enable baseline risk quantification, safety risk assessment and forecasting to support risk based decision making, accident and incident modeling, barrier analysis, sensitivity, and "what if?" analyses to ensure that primary safety considerations are addressed within the integrated safety risk assessment models;		
e) together with industry stakeholders, support r	egional mechanisms and platforms for greater	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
data sharing and alignment of safety priorities;		
That ICAO:		
f) further develop and promote iSTARS and SIMS and other analysis solutions, and conduct regular iSTARS User Group Meetings so as to continually adapt to the changing safety environment; g) encourage activities that facilitate global reporting of safety events and vulnerabilities to assure that the necessary safety data is available;		f) and g): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing to develop and promote iSTARS and SIMS and add new applications as needed and conduct iSTARS User Group Meetings on a regular basis.
h) review and develop guidance to further facilitate the sharing of safety data between operators and those responsible for the type design and manufacture of aircraft;		h): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing to support coordination between the AIRP and the SMP to provide content for the SMI website to further facilitate the sharing of safety data between operators and those responsible for the type design and manufacture of aircraft.
i) raise awareness in States on the importance of initiating SSP and SMS implementation with simple processes that optimize resources to demonstrate benefits and develop momentum required to achieve the needed change in the organizational culture; j) take action to foster the creation of uniform processes in States that promote the sharing of safety data;		i): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include addressing this through the Safety Management Capacity Building Workshops being delivered in 2019 and incorporate in ICAO SSP course. j): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include delivering workshops and
		training courses to raise awareness and promote uniform approaches by States for

SUGGESTED FOLLOW-UP ACTION COUNCIL	AIR NAVIGATION COMMISSION (ANC)
	sharing of safety data.
	k): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing to highlight the use of the ICAO Safety Management Implementation (SMI) website for the sharing and exchange of practical examples and experience in briefings and working paper to be presented at RASG and PIRG meetings.
	l): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing to provide data, indicators and analysis tools that would allow States and participating industry stakeholders to identify and highlight their safety priorities and align them with RASG goals and targets.
a) and b): Approve and request the Secretary General	a) and b): Note.

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
recognition);		
b) support the development of ICAO Standards and Recommended Practices (SARPs), guidance material and manuals that Member States use to issue certificates for products, and complement them with guidance for best practices in conducting validation activities;		
That ICAO:		
c) continue to encourage the reduction of duplicate certification action conducted by Member States that offers no commensurate increase in safety; and		c) and d): Approve, and continue monitoring the on-going work. Request the Secretary General to take appropriate actions, which should include continuing to support the work of the Airworthiness panel (AIRP) in
d) review and develop materials for inclusion in the Airworthiness Manual (Doc 9760), Safety Management Manual (SMM) (Doc 9859), Annex 8 — Airworthiness of Aircraft and/or Annex 19 — Safety Management, for States of Registry (SoR) to determine the appropriate level of involvement in validation/recognition principles for States of Design (SoD) approvals.		determining the need for and the development of new materials to support further reduction in duplicative certification activity.
Recommendation 7.2/1 — Strengthening RSOOs		
That States:		
a) further support the strengthening of regional safety oversight organizations (RSOOs) by engaging actively in the development of their RSOOs, by securing adequate and sustainable RSOO funding mechanisms, and, as appropriate,		
	a): Approve and request the Secretary General to bring to the attention of States.	a): Note.

	SUGGESTED FOLLOW-UP ACTION	
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
by further delegating safety oversight functions to the RSOO; That ICAO: b) recognize that RSOOs have an important role to play in carrying out safety oversight functions on behalf of their Member States and, within the Global Aviation Safety Plan (GASP) framework, in addressing safety		b) and c): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing activities under the RSOO Cooperative Platform and sharing of information regarding GASOS and the ASIAP, as well as, continue to engage with States and RSOOs to promote regional activities and sustainability of RSOOs.
	d): Approve and request the Secretary General to bring to the attention of States.	d): Note.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
categories, particularly runway excursions and incursions, continue to be a global safety priority for aviation stakeholders as determined by a risk- based analysis;	to bring to the attention of States.	
b) urge runway safety stakeholders, including aircraft operators, air navigation service providers, aerodrome operators, aerospace industry, and regional aviation safety groups, to implement the actions in the Global Runway Safety Action Plan (GRSAP) to reduce the global rate of runway excursions and runway incursions;		
c) continue to establish requirements and activities aimed at improving runway safety through State runway safety programmes;		
d) encourage aerodrome operators to establish effective runway safety teams and encourage all runway safety stakeholders to actively participate in established runway safety teams; and		
That ICAO:		
e) continue to lead and coordinate the runway safety programme with its partner organizations to work together to mitigate runway safety- related risks.		
	e): Note.	e): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include continuing to develop runway safety-related SARPs, PANS and guidance, such as provisions for prevention of runway excursions and the implementation of State runway safety programmes. And continuing to develop ICAO aviation training related to runway safety, including for runway excursion prevention.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
Recommendation 7.3/1 — ICAO implementation strategies		
That ICAO:		
Plan (GASP) and the Global Aviation Security Plan (GASeP) to achieve an integrated implementation approach; b) take into account implementation support needs when developing provisions;	f) to h): Note.	a): Note and request the Secretary General to take the appropriate actions, including the establishment of a mechanism for the strengthening of the relationship between the Global plans. b): Note and request the Secretary General to take the appropriate actions related to supporting the development of implementation working packages. c) and d): Note and request the Secretary General to take the appropriate actions related to continuing the development of new terms of references (TORs) for PIRGs and RASGs.
of implementation between regions; e) consider the development of a global collaboration mechanism to facilitate interregional alignment, harmonization, and sharing of best practices and lessons learned; f) support the development of a flexible, progressive and risk-based strategy to improve global implementation of Standards and Recommended Practices (SARPs);		e): Note and request the Secretary General to take the appropriate actions related to conducting a global forum on PIRGs and RASGs regularly. f)): Approve, include in the AN work programme and request the Secretary General to take appropriate actions to explore alternatives to improve and create more awareness of the Standard making process and adoption of Standards.

SUGGESTED FOLLOW-UP ACTION			
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)	
g) request an appropriate group of experts to further review and explore a process that would facilitate short-term (successive) aircraft interchange operations; and h) further develop risk management capabilities and facilitate implementation of multilateral arrangements for the sharing of risk information and (regional) contingency planning related with civil aircraft operations over or near conflict zones. Recommendation 7.3/2 — Aviation Safety Implementation Assistance Partnership (ASIAP)		g): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to supporting updates to the work items of the Flight OPS Panel, as required. h): Approve, include in the AN work programme and request the Secretary General to take the appropriate actions related to supporting the development of risk management capabilities and facilitate implementation of multilateral arrangements for the sharing of risk information and (regional) contingency planning related with civil aircraft operations over or near conflict zones.	
That ICAO: a) continue to develop the prioritization of States and areas of technical assistance criteria in order to achieve appropriate and transparent prioritization; That ASIAP Partners: b) strive for greater commitment to, and participation in, the Aviation Safety Implementation Assistance Partnership (ASIAP) Programme, and invite other States and international organizations that can provide technical assistance to States to join ASIAP;	a): Note.	a): Approve, include in the AN work programme and request the Secretary General to take appropriate action. b): Note and request the Secretary General to take the appropriate actions related to continuing the development of partnerships.	

SUGGESTED FOLLOW-UP ACTION			
RECOMMENDATIONS ADOPTED BY AN-		AIR NAVIGATION COMMISSION (ANC)	
c) and other stakeholders providing technical assistance (including States, regional safety oversight organizations (RSOOs), international organizations, industry and financial institutions) coordinate their technical assistance activities and make use of the online Project Database (https://www.icao.int/safety/ASIAP/Pages/Tools. aspx) in order to reduce duplication of activities and effort;		c): Note and request the Secretary General to take the appropriate actions related to coordinating the sharing of assistance information using a common platform.	
d) apply the Project Outcome Indicators (POIs) to their projects and review the measurable results in coordination with each other; and e) including ICAO, States, international organizations, industry and financial institutions provide funding to support technical assistance activities. Recommendation 7.3/3 — State national planning framework That States:		d): Note and request the Secretary General to take the appropriate actions related to continuing to apply the POIs to ICAO projects under ASIAP. e): Note and request the Secretary General to take the appropriate actions related to continuing to facilitate coordination and cooperation amongst stakeholders, on funding possibilities.	
a) reaffirm support for the fundamental roles and responsibilities of Contracting States, Council and the Air Navigation Commission, as provided in the Convention on International Civil Aviation (Doc 7300), for the development of quality and timely Standards and Recommended Practices (SARPs);	a) to d): Approve, and request the Secretary General to take appropriate action.	a) to d): Note.	

SUGGESTED FOLLOW-UP ACTION			
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)	
c) support the ICAO Next Generation of Aviation Professionals (NGAP) Programme in light of the international need to address the existing aviation personnel shortages and to ensure a competent workforce capable of meeting the needs and challenges of the global aviation community into the future; and			
d) share best practices on applied strategies to promote more productive recruitment, training and education, development and retention programmes.			
Recommendation 7.3/4 — Regional office resources for implementation activities			
That ICAO:			
a) give due consideration in the allocation of resources to regional offices for the support of implementation activities;			
		a) to c): Note and request the Secretary General to take the appropriate actions related to studying and giving due consideration to the needs for additional regional office resources	

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
CONF/13		
Recommendation 7.3/5 — Support for the continuation of the Comprehensive Regional Implementation Plan for Aviation Safety in Africa (AFI Plan)		
That States:		
a) support the continuation of AFI Plan activities and the project-based approach;	a) to d): Approve, and request the Secretary General to a) to c): Note. take appropriate action.	
b) request ICAO, international organizations and industry partners to support the AFI Plan and its associated projects;		
c) consider adopting an approach similar to the AFI Plan to address safety deficiencies and challenges in their region; and		
That ICAO:		
d) extend the AFI Plan in order to enable it to accomplish its objectives.		
		d): Note and request the Secretary General to take the appropriate actions related to integrating the requirements for the AFI Plan in close cooperation with the AFI Plan Steering
Agenda Item 8: Emerging safety issues — 8.1: Measures	to proactively address emerging issues; and 8.2: Emerg	ging safety issues
Recommendation 8.1/1 — Measures to proactively addi	ess emerging issues	
That ICAO:		
a) raise awareness and inform States of existing guidance on identifying and addressing emerging safety issues, including mitigation actions and balancing the integrated management of distinct risks (existing/emerging);	a) to i), except b) and c): Note programme and request the Secretary General to ta developing a website on emerging safety issues.	a): Approve, include in the AN work ke appropriate actions, which should include
b) urge the regional aviation safety groups (RASGs)	b) and c): Approve, and request the Secretary	b) and c): Note.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
or other regional organizations, including regional safety oversight organizations (RSOOs), to institute a process for addressing emerging safety issues based on a data-driven analysis; c) urge States, regional entities and industry to participate actively in regional and sub regional studies on emerging safety issues conducted by the RASGs; d) urge States, regional entities and industry to share information on emerging safety issues with other States and ICAO through the dedicated website; e) systematically collect information from States and regional organizations, for the purpose of assessing and monitoring their global safety impact, on the following: new concepts of operations and new technologies; new risk management concepts and methods for coping with the dynamics and complexity of the aviation system; as well as the initial implementation of such new concepts, methods and technologies; f) establish a holistic, performance-based process for the development of ICAO provisions in response to these emerging issues and risks to assess if the established provisions achieve the objectives for which they were designed;		d) and e): Approve, include in the AN work programme and request the Secretary General to take appropriate actions.
g) provide guidance for the implementation of risk and performance-based assessment and oversight at both State and regional levels;		f): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include developing a holistic, performance-based process for the development of ICAO provisions.
		g): Approve, include in the AN work programme and request the Secretary General to take appropriate actions, which should include developing guidance for the implementation of risk and performance- based assessment and oversight.

SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN- CONF/13	COUNCIL	AIR NAVIGATION COMMISSION (ANC)
h) provide a global, inclusive civil-military		h): Approve, include in the AN work programme and request the Secretary
cooperation mechanism to move from a reactive situation		General to take appropriate actions, which
to a proactive one by applying predictive, holistic risk		should include developing a global mechanism
management to emerging issues; and		for proactive application of holistic risk
		management to emerging issues.
i) based on data from regional aviation safety		i): Approve, include in the AN work
groups and risk analysis, consider developing a study on		programme and request the Secretary
the subject of objects falling from aeroplanes and		General to take appropriate actions, which
guidance material on preventive measures.		should include performing a study on objects falling from aeroplanes, and the relevant
		guidance material on preventive measures.
Recommendation 8.2/1 — Remotely piloted aircraft		
systems (RPAS) operations		
That ICAO continue developing Standards and		
Recommended Practices (SARPs), Procedures for Air		
Navigation Services (PANS) and guidance material to		Approve, and continue to monitor the progress
support safe remotely piloted aircraft systems (RPAS) operations, and continue facilitating implementation of	Note.	of the existing item in the AN work programme.
RPAS related provisions through regional training	Total.	programme.
activities.		
Recommendation 8.2/2 — Medical Standard for pilots		
of light aircraft		
That ICAO:		
a) review national medical certification		
protocols currently used by a number of States in order to		
identify commonalities; and		
		a) and b): Approve, include in the AN work programme and request the Secretary
		General to take appropriate actions, which
	a) and b): Note.	should include tasking an expert group such as
		the MPSG with the review and, based on the
		outcome, to propose a Standard for pilots flying light aircraft.
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A-64 C-WP/14837 Appendix

	SUGGESTED FOLLOW-UP ACTION		
RECOMMENDATIONS ADOPTED BY AN-	COUNCIL	AIR NAVIGATION COMMISSION (ANC)	
CONF/13			
b) based on this review of commonalities among the			
various States' national medical certification protocols, develop a Standard specifically addressing pilots flying			
light aircraft.			