

#### Fifth Meeting of the Directors General of Civil Aviation- Middle East Region

الإجتماع الخامس للمدراء العامين للطيران المدني في منطقة الشرق الأوسط

DGCA-MID/5

Kuwait 4-6 Nov 2019



## Aviation Safety and Air Navigation Global Updates



Stephen P. Creamer

Director, Air Navigation Bureau (ANB)



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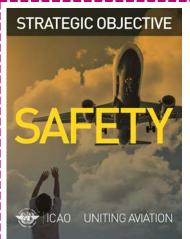
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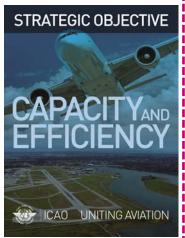


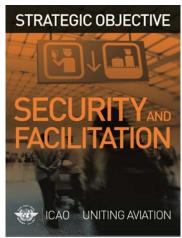


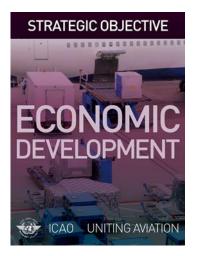
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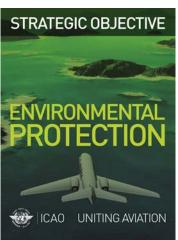
# Vision: Achieve the sustainable growth of the global civil aviation system











**Focus of the Air Navigation Bureau** 

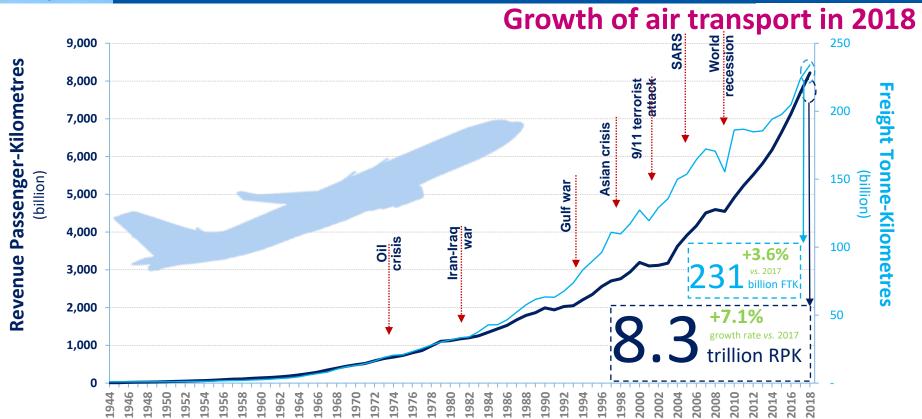
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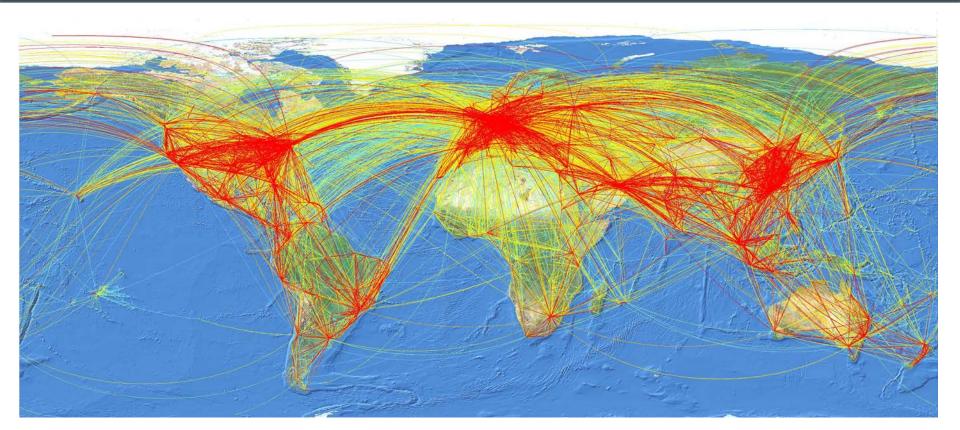




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## TRAFFIC DENSITY

2050





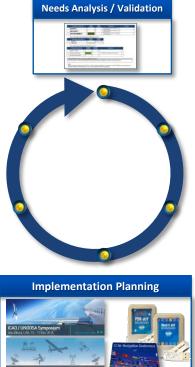
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3 November 2019

# CELEBRATE CONTROL OF THE CONTROL OF

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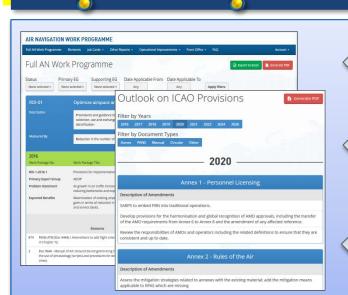


















**ICAO COUNCIL** 



ANC & ANC Panels







#### **Air Navigation Work Programme**



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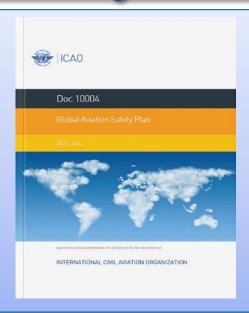


## **Endorsed by A40**



GASP 2020-2022
 Edition

GANP Portal







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#### **GANP**

#### Sixth Edition of the GANP

- Multilayer structure
- **GANP Portal**

https://www4.icao.int/ganpportal/

#### Included improvements:

- Communication: Tailored to different audiences
- Accessibility: Publically available
- Global, Regional and national air navigation planning alignment
  - Digital:
    - Consistent
    - Relevant
    - Tool development



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### MULTILAYER STRUCTURE OF THE GANP Click a level to navigate **GLOBAL STRATEGIC GLOBAL TECHNICAL** REGIONAL NATIONAL



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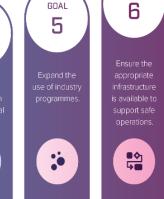
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#### **GASP**

- Six goals in the GASP support the overall aspirational safety goal
  - To mitigate the risk of fatalities, States, regions and industry need to address what we refer to as "the high-risk categories of occurrences" or "HRCs".
  - HRCs identified for GASP 2020-2022:
    - controlled flight into terrain;
    - loss of control in-flight;
    - mid-air collision;
    - runway excursion; and
    - runway incursion.
  - The global aviation safety roadmap is included in the GASP to assist States, regions and industry in addressing the five HRCs.









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**16** Annexes

(available through Mobile Annexes)

6 Procedures for Air Navigation Services

**110+** Manuals

**37+** Circulars



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**PIRGs** 

#### **MANUALS**









Manual on VHF Digital Link (VDL)













#### **REGIONAL IMPLEMENTATION**











Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds















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## **New TORs -PIRGs and RASGs**

15 to 18 April 2018

- MIDANPIRG17 and
- RASG-MID7

	Plenary PIRGs + RASGs	PIRG	Coordination issues
		RASG	+ Report

- Council approved TORs (C-DEC 217/6).
- A40 TC under Agenda Item 29: agreed that, in future, PIRGs and RASGs should meet and report their meeting outcomes to the Council on an annual basis



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## **Future Improvement for PIRGs and RASGs**

- Improved process supported with tools
- Additional reporting and monitoring
- Enhanced coordination between PIRGs/RASGs
- Integrated implementation for AN and Safety
- Towards complete integration



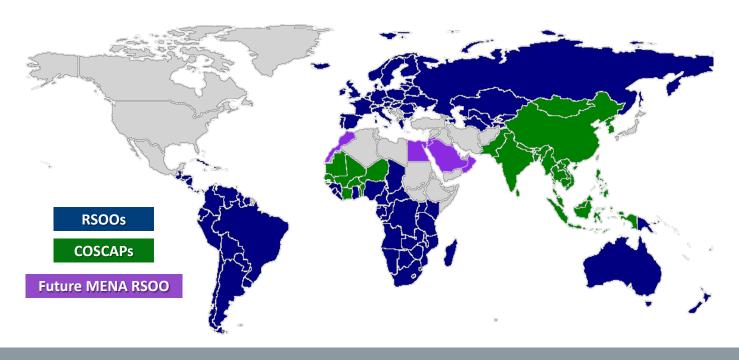


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## **Regional Solutions**





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## **Objectives of GASOS**

 Strengthen State safety oversight, accident investigation and safety management capabilities by:

## **Objective**

Assessing existing SOOs and AIOs to make them more effective and efficient in supporting States

### **Objective**

Facilitating the provision of safety functions and activities, where needed, for States by capable and qualified SOOs and AIOs



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A 'NO COUNTRY LEFT BEHIND' Initiative:

MPLEMENT

Facilitating Data-Driven Decisions for Aviation





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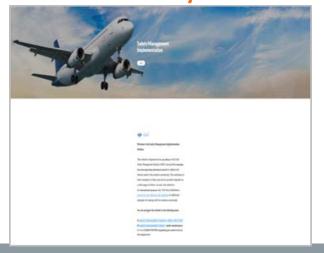
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## **Safety Management Tools**

✓ 7 Applications on iSTARS 3.0

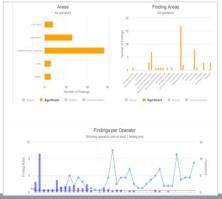


✓ Safety Management Implementation (SMI) public website, www.icao.int/SMI



Safety Information Monitoring System (SIMS)

www.icao.int/safety/Pages/Sa fety-Information-Monitoring-Service.aspx





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## **Safety Management Capacity Building**

- ✓ Regional Symposia and Workshops delivered across all ICAO regions between October 2017 through 2019
- ✓ Safety Management Training Programme being developed, including suite of online and classroom courses to address required competencies for implementing SSP
- ✓ Initiatives tailored to each region will be developed in 2020 in support of the goals and targets of the GASP and GANP with a focus on SSPs and SMSs including the development of the required safety management competencies

		Online courses					Classroom courses				
	SSP Roles	Universal Safety Oversight Audit Programme (USGAP)	Safety Management Online Curriculum *Prempinte to (SIP) and (SMP) classion courses	Introduction to Safety Information Protection	Fundamentals of Aviation Data-driven Decision Making (ADDM) **Pempiole to (ADDM) classroom course	Fundamentals of the Air Transport System (SATS) 1	State Safety Programme (SSP)*	Safety Hanagement for Practitioners ISMsFI*	SMS Assessment and Monitoring	Application of Aviation Buta-driven Decision Making (ADIMI**	Safety Occurrence Reporting and Analysis (SORA)
	SSP - Related Legislation and Regulations		1	1			1				
2	SSP Coordination Group Members		1				1				
3	SSP Management	1	1	1	1		1	1		1	1
	Safety Data Collection and Analysis		1	1	1	Recommended <sup>‡</sup>	1			1	1
5	State Safety Performance		1		1	mme	1	1		1	
6	Safety Risk Management		1			Reco	1	1			
	SMS Assessment and Monitoring		1				1		1		
	Safety Promotion		1				1				
	Heads of Departments within the CAAs		1								



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## MID Region Initiatives

- MENA RSOO
- MID FPP
- ATFM project
- SSP Implementation



Implementation Require Collaboration



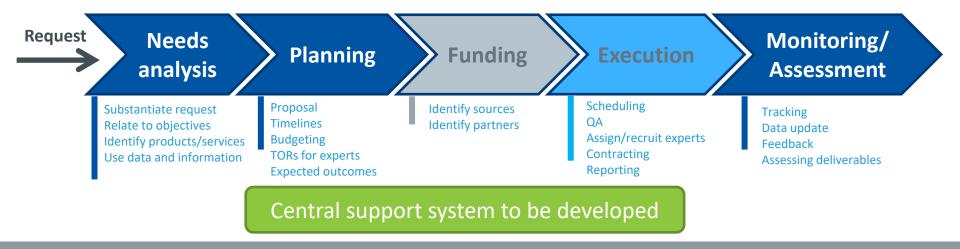
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## Proposed High Level Implementation Support Process





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ICAO Coordinated Validation Mission-conducted **USOAP CMA Activities** From 1 Jan 2016 to 31 Dec 2018



**OFF-SITE Validation** Activities-conducted **USOAP CMA Activities** From 1 Jan 2016 to 31

Dec 2018



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### **Exploratory Questions to DGCAs**

Shift from the development of global provisions to development of global provisions + implementation

- Reduction and/or slowing down the pace of development of global provisions
- What weight of effort should be dedicated to development of global provisions vs implementation?
- What is the region doing for improving collaboration to enhance implementation?
- What should be the focus of ICAO implementation support? And will the model proposed is workable in MID?

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## Questions?

