

National Aviation Safety Plan Sri Lanka 2023 - 2025





NATIONAL AVIATION SAFETY PLAN OF SRI LANKA $1^{\rm ST}$ EDITION, 2023-2025

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Revision Number	Source	Areas subjected to Change	Effective date
00	 ➢ ICAO Doc 10004 − GASP (2023-2025). ➢ ICAO Doc 10131. ➢ ICAO Circular 358 ➢ APRASP (2023-2025) ➢ ICAO Doc 10161 (2023-2025) ➢ Occurrence Reports. ➢ ICAO CMA ➢ ICAO USOAP iSTARS 		31-12-2022

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ABBREVIATIONS

AAIB Aircraft Accident Investigation Bureau
ACAS Airborne Collision Avoidance System

ADs Airworthiness Directives AGA Aerodrome and Ground Aid

AIP Aeronautical Information Publication
ALoSP Acceptable level of safety performance
AMO Approved Maintenance Organization
AMP Aircraft Maintenance Programme

ANS Air Navigation Services

ANSP Air Navigation Service Provider

AOC Air Operators Certificate

AP RASP Asia Pacific Regional Aviation Safety Plan

APV Approaches with vertical guidance

ARC Abnormal Runway Contact
ATM Air Traffic Management
ATS Air Traffic Services
ATC Air Traffic Control

ATO Approved Training Organizations

CAMO Continuing Airworthiness Management Organization

CAASL Civil Aviation Authority of Sri Lanka

CAP Corrective action plan

CART Council Aviation Recovery Task Force
CAST Commercial Aviation Safety Team

CE Critical element

CFIT Controlled flight into terrain

CICTT CAST/ICAO Common Taxonomy Team

CMA Continuous Monitoring Approach

COSCAP-SA Cooperative Development of Operational Safety and Continuing Airworthiness

Programme - South Asia

CRM Crew Resource Management

DGCA Director General of Civil Aviation

EI Effective Implementation

EU-SA APP EU - South Asia Aviation Partnership Project

FMs Flight Movements

GANP Global Air Navigation Plan GASP Global Aviation Safety Plan GSAG Ground Safety Action Group

GPWS Ground Proximity Warning System

HRCs High Risks Categories

ICAO International Civil Aviation Organization

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iSTARS integrated Safety Trend Analysis and Reporting System

LOC-I Loss of control in-flight

MAC Mid air collision

MPD Maintenance Programme Document

MEL Minimum Equipment List NASP National Aviation Safety Plan

ORG Organizational

PANS Procedures for Air Navigation Services
PCDS Position Competency Development Scheme

PQ Protocol question

RAIO Regional Accident and Incident Investigation Organization

RASG Regional Aviation Safety Group

RE Runway Excursion RI Runway Incursion

RPAS Remotely Piloted Aircraft System

RSOO Regional Safety Oversight Organization

SAFE Safety Fund

SARPs Standards and Recommended Practices

SEI Safety enhancement initiatives
SMS Safety management system
SOPs Standard Operating Procedures

SOR Scheme of Recruitment

SPI Safety performance indicator SSC Significant safety concern SSP State Safety Programme

USOAP Universal Safety Oversight Audit Programme

WS Wildlife Strike

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DEFINITION

Acceptable level of safety performance (ALoSP). The level of safety performance agreed by State authorities to be achieved for the civil aviation system in a State, as defined in its State safety programme, expressed in terms of safety performance targets and safety performance indicators.

Accident. An occurrence associated with the operation of an aircraft which, in the case of a manned aircraft, takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, or in the case of an unmanned aircraft, takes place between the time the aircraft is ready to move with the purpose of flight until such time as it comes to rest at the end of the flight and the primary propulsion system is shut down, in which:

- a) a person is fatally or seriously injured as a result of:
- -being in the aircraft, or
- -direct contact with any part of the aircraft, including parts which have become detached from the aircraft, or
- -direct exposure to jet blast,

except when the injuries are from natural causes, self-inflicted or inflicted by other persons, or when the injuries are to stowaways hiding outside the areas normally available to the passengers and crew; or

- b) the aircraft sustains damage or structural failure which:
- adversely affects the structural strength, performance or flight characteristics of the aircraft, and would normally require major repair or replacement of the affected component,

except for engine failure or damage, when the damage is limited to a single engine, (including its cowlings or accessories), to propellers, wing tips, antennas, probes, vanes, tires, brakes, wheels, fairings, panels, landing gear doors, windscreens, the aircraft skin (such as small dents or puncture holes), or for minor damages to main rotor blades, tail rotor blades, landing gear, and those resulting from hail or bird strike (including holes in the radome); or

c) the aircraft is missing or is completely inaccessible.

Contributing factors. Actions, omissions, events, conditions, or a combination thereof, which, if eliminated, avoided or absent, would have reduced the probability of the accident or incident occurring, or mitigated the severity of the consequences of the accident or incident. The identification of contributing factors does not imply the assignment of fault or the determination of administrative, civil or criminal liability.

Critical elements (CEs). The critical elements of a safety oversight system encompass the whole spectrum of civil aviation activities. They are the building blocks upon which an effective safety oversight system is based. The level of effective implementation of the CEs is an indication of a State's capability for safety oversight.

Effective implementation (EI). A measure of the State's safety oversight capability, calculated for each critical element, each audit area or as an overall measure. The EI is expressed as a percentage.

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Hazard. A condition or an object with the potential to cause or contribute to an aircraft incident or accident.

Incident. An occurrence, other than an accident, associated with the operation of an aircraft which affects or could affect the safety of operation.

Operator shall have the same meaning as given in Section 124 of the Civil Aviation Act no 14 of 2010.

Safety. The state in which risks associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.

Safety data. A defined set of facts or set of safety values collected from various aviation-related sources, which is used to maintain or improve safety.

Note: Such safety data is collected from proactive or reactive safety-related activities, including but not limited to:

- a) accident or incident investigations;
- *b)* safety reporting;
- c) continuing airworthiness reporting;
- d) operational performance monitoring;
- e) inspections, audits, surveys; or
- f) safety studies and reviews.

Safety enhancement initiative (SEI). One or more actions to eliminate or mitigate operational safety risks or to address an identified safety issue.

Safety information. Safety data processed, organized or analysed in a given context so as to make it useful for safety management purposes.

Safety management system (SMS). A systematic approach to managing safety, including the necessary organizational structures, accountability, responsibilities, policies and procedures.

Safety objective. A brief, high-level statement of safety achievement or desired outcome to be accomplished by the State safety programme or service provider's safety management system.

Note.— Safety objectives are developed from the organization's top safety risks and should be taken into consideration during subsequent development of safety performance indicators and targets.

Safety oversight. A function performed by a State to ensure that individuals and organizations performing an aviation activity comply with safety-related national laws and regulations.

Safety performance. A State's or service provider's safety achievement as defined by its safety performance targets and safety performance indicators.

Safety performance indicator. A data-based parameter used for monitoring and assessing safety performance.

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Safety performance target. The State or service provider's planned or intended target for a safety performance indicator over a given period that aligns with the safety objectives.

Safety risk. The predicted probability and severity of the consequences or outcomes of a hazard.

Serious incident. An incident involving circumstances indicating that there was a high probability of an accident and associated with the operation of an aircraft which, in the case of a manned aircraft, takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, or in the case of an unmanned aircraft, takes place between the time the aircraft is ready to move with the purpose of flight until such time as it comes to rest at the end of the flight and the primary propulsion system is shut down.

Note.- The types of incidents which are of interest for safety-related studies include the incidents listed in Annex 13, Attachment C.

Service providers. A Service Provider appointed under Section 6 of the Civil Aviation Act, No. 14 of 2010 and includes any licensed entity engaged in the implementation of a SMS.

Significant safety concern (SSC). Occurs when the State allows the holder of an authorization or approval to exercise the privileges attached to it, although the minimum requirements established by the State and by the Standards set forth in the Annexes to the Convention are not met, resulting in an immediate safety risk to international civil aviation.

State Safety Programme (SSP). An integrated set of regulations and activities aimed at improving safety.

Surveillance. The State activities through which the State proactively verifies through inspections and audits that aviation licence, certificate, and authorization or approval holders continue to meet the established requirements and function at the level of competency and safety required by the State.

System. An organized, purposeful structure that consists of interrelated and interdependent elements and components, and related policies, procedures and practices created to carry out a specific activity or solve a problem.

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1. INTRODUCTION

1.1 Overview of the NASP

The purpose of the National Aviation Safety Plan (NASP) of Sri Lanka is to continually reduce fatalities, safety risks to aircraft, infrastructure and the risk of fatalities, through the development and implementation of a national aviation safety strategy. A safe aviation system contributes to the economic development of Sri Lanka and the industries. The NASP promotes the effective implementation of Sri Lanka's safety oversight system, a risk-based approach to managing safety, as well as a coordinated approach to collaboration between Sri Lanka and other States, regions and aviation industry. The 1st Edition of the NASP is applicable for commercial air transport operation. All stakeholders are encouraged to support and implement the NASP as the strategy for the continuous improvement of aviation safety.

Safety is always one of the considerations of the Government of Sri Lanka and Aviation authorities to ensure the continued confidence in our aviation industry. The National Aviation Safety Plan (NASP) 2023–2025 complements the State Safety Programme (SSP) of Sri Lanka. It identifies initiatives that are being undertaken to reduce the risks associated with air operations in Sri Lanka and details the strategic direction for the management of aviation safety in the short, medium and long term. This first issue of the NASP presents the national strategy and roadmap of actions through Safety Enhancement Initiatives for enhancing aviation safety for the period 2023 to 2025. The Safety enhancement initiatives (SEIs) defined by the NASP of Sri Lanka are not only to support the improvement of safety domestically, but within the Asia-Pacific region and globally.

The NASP of Sri Lanka is in alignment with the ICAO Global Aviation Safety Plan 2023 – 2025 (GASP) and the Asia Pacific Regional Aviation Safety Plan 2023–2025 (AP-RASP), in recognition that aviation activities are global in nature. The NASP is subject to ongoing amendments aligned to the review, development and publication of the GASP, the AP-RASP and the SSP of Sri Lanka.

Thereby with the establishment of the NASP, Sri Lanka is committed to enhancing aviation safety and resourcing of supporting activities.

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P.A. Jayakantha
Director General of Civil Aviation &
Chief Executive Officer

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1.2 Structure of the NASP

This NASP presents the strategy for enhancing aviation safety in Sri Lanka for a rolling plan of 3 years and will be amended as required. It comprises of nine sections, namely, Introduction, Roles and responsibilities, Challenges and priorities in safety planning; National safety issues, goals and targets; Purpose of Sri Lanka's NASP; Sri Lanka's strategic approach to managing aviation safety; National Operational safety risks; Other safety issues and Monitoring implementation. The safety enhancement initiatives (SEIs) listed in the NASP will be monitored.

1.3 Relationship between the NASP and the State Safety Programme (SSP)

NASP addresses operational safety risks identified in the ICAO GASP and the AP –RASP. Sri Lanka is committed to fully implement SSP by 2028 as State's responsibility for the management of safety comprise both safety oversight and safety management, collectively implemented through an SSP. Initiatives listed in this NASP address organizational challenges and aim to enhance organizational capabilities related to effective safety oversight.

1.4 Responsibility for the NASP development, implementation and monitoring

The Civil Aviation Authority of Sri Lanka (CAASL) is responsible for the development, implementation and monitoring of the NASP, in collaboration with Ministry of Civil Aviation, Service Providers, Operators and national aviation industry. The NASP has been developed in consultation with Service Providers and national operators and in alignment with the GASP 2023 – 2025 Edition and the AP- RASP 2023 - 2025.

1.5 Operational Context

There are 4 certified international aerodromes out of five civil aerodromes in Sri Lanka. In addition, 11 water aerodromes are in operation at present. The airspace of Sri Lanka is classified into Class A, C, D, E and G.

The highest number of aircraft movements 67,158 was reported in 2018. There are currently 08 Air Operator Certificates (AOCs) issued by the DGCA - Sri Lanka including 02 international commercial air transport operators. General aviation includes fixed wing and rotor wing operations.

Common challenges in Sri Lanka include topography, meteorology, infrastructure, and socio-political issues.

The following table summarizes the main sectors of the Sri Lanka civil aviation system from 2020 to 2022.

Sector	2020	2021	2022
<u>Aerodromes</u>			
ICAO certified aerodromes	3	3	4
Nationally licenced	2	2	1

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Sector	2020	2021	2022
<u>Airlines</u>			
Local Airlines engaged in domestic air services	7	5	6
Local Airlines engaged in international air services	2	2	2
International Foreign Airlines	39	36	45
Training Organizations			
Flying Schools	8	8	7
Type Rating Training Organizations	3	2	1
Maintenance Training Organizations	4	4	4
Civil Aviation Training Centers	1	1	1
Air Navigation			
Air Navigation Service Providers	1	1	1
Registration and Airworthiness of Aircraft			
Large Aircraft (Maximum take-off weight 5700kg & above)	29	25	27
Small Aircraft (Maximum take-off weight less than 5700kg	<u>g)</u>		
Light Transport Aircraft	42	43	43
Ultra-Light Aircraft	2	1	1
Helicopter	9	7	7
Hot Air Balloons	6	4	4
Synthetic Training Devices Flying Devices			
Local full flight Simulators – A 320/A 330	3	3	3
ATC Simulator	1	1	1
Personnel Licensing			
Student Pilot Licenses issued	114	211	145
Private Pilot Licenses issued	87	173	135
Commercial Pilot Licenses issued	183	306	245
Air Transport Pilot Licenses issued	315	448	384
Air Traffic Control Licenses issued	49	54	45
Aircraft Maintenance Engineer Licenses issued	1	2	0

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Sector	2020	2021	2022
Aircraft Maintenance Licenses issued	145	81	179
Flight Dispatcher License /Flight Operation Officer Licenses issued	0	1	0
Cabin Crew Member Certificates issued	106	176	253
Flying Instructors	9	11	13
Assistant Flying Instructors	7	8	9
Ground Instructors License issued	10	17	25
Flight Examiners	5	5	6
Designated Check Pilots	20	20	19
Civil Aviation Medical Examiners/ Medical Assessors	6	6	6

Table 01: Main sectors of the Sri Lanka civil aviation system

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2. ROLES AND RESPONSIBILITIES

2.1 Role of ICAO

ICAO is responsible for coordinating and monitoring the implementation of the GASP at a global and regional level. Through the GASP, ICAO seeks to promote global collaboration to enhance aviation safety. ICAO also coordinates a series of Regional Aviation Safety Groups (RASG) and Regional Aviation Safety Teams (RAST), to facilitate the sharing of information, resources and expertise among States.

2.2 Role of the ICAO Asia Pacific (APAC) region

ICAO has established a series of regions (groups of States and/or entities) around the world to promote collaboration on aviation safety enhancement within a specific geographic area. Sri Lanka is part of the ICAO Asia Pacific (APAC) region. Each ICAO region produces a Regional Aviation Safety Plan (RASP) that presents the strategic direction for the management of aviation safety within the region. While RASPs generally align with the GASP, they are designed to focus on regional priorities and specific risks. The AP-RASP is the main aviation safety planning document for the APAC region. RASGs are the main drivers of safety planning and implementation within a given region, and serve to integrate global, regional, State and industry efforts in continuing to enhance aviation safety. In the APAC region, the AP-RASP is overseen by the Regional Aviation Safety Group — Asia Pacific (RASG-APAC). The RASG-APAC is tasked with developing, implementing and delivering the AP-RASP. The RASG-APAC is supported by the Asia Pacific Regional Aviation Safety Team (APRAST), comprising representatives from Asia Pacific States.

2.3 Role of Sri Lanka

Sri Lanka has developed and will implement the NASP through this document to support the SSP. The NASP has considered national challenges and priorities, GASP and RASP expectations of States, and address any significant safety concerns as a priority. The CAASL is responsible for the development, implementation and monitoring of the NASP, in collaboration with Ministry in charge of Civil Aviation and other stake holders.

2.3.1 Role of Sri Lanka aviation stakeholders

The SSP of Sri Lanka defines the roles and responsibilities of the Government agencies that manage aspects of the civil aviation system. Each SSP stakeholder is responsible for implementing specific SEIs indicated in NASP and actions assigned to them. SSP stakeholders are required to provide regular updates on the status and progress of SEIs and associated actions to the relevant SSP coordination Committee meetings. SSP stakeholders may prepare a dedicated safety plan, or align existing plans, to complement the NASP and articulate how they will meet their obligations. This ensures SEIs and actions assigned to an SSP agency are appropriately managed and issues are escalated to the relevant SSP coordination Committee meetings as required.

2.3.2 Role of industry and industry participants

Industry and industry participants are expected to actively support implementation of the NASP, and are encouraged to identify and undertake relevant supporting actions. Industry should engage in Safety Management System (SMS) implementation to continually identify hazards and address operational safety risks. Industry is encouraged to work collaboratively with all SSP stakeholders on safety information exchange, safety monitoring and safety oversight programs. Industry should

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develop their own indicators consistent with the NASP safety goals and targets, to ensure industry safety strategies align with the NASP. Industry should adopt a harmonized approach in developing SMS indicators and targets. The CAASL will continue to encourage and educate aviation industry stakeholders on existing aviation safety framework. The voluntary confidential and self-reporting frameworks, and the operation of a just culture approach to safety regulation requires the commitment of relevant aviation authorities. This will also contribute to ongoing efforts to improve industry trust with increased levels of industry reporting, to safety improvements in aviation system of Sri Lanka.

2.4 Key participants

The stakeholders contributing to the NASP (SSP stakeholders) includes government organizations, service providers and operators as follows;

- 1) Ministry in charge of the subject of Civil Aviation
- 2) Civil Aviation Authority of Sri Lanka
- 3) Certified Aerodrome Operators
- 4) Air Navigation Service Provider
- 5) Air Operator Certificate Holders
- 6) Continuing Airworthiness Management Organizations & Approved Maintenance Organizations
- 7) Aviation Fuel Service Provider
- 8) Ground Handler Licence Holder
- 9) Department of Meteorology
- 10) Sri Lanka Air Force as an aerodrome, airspace user and a recipient of Air Navigation Services

Each SSP stakeholder is responsible for implementing particular NASP action items as assigned in Appendix A and Appendix B.

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3. CHALLENGES AND PRIORITIES IN SAFETY PLANNING

3.1 Global challenges and priorities

The GASP outlines the safety challenges and priorities that ICAO considers to be of concern to the international aviation community, identified on the basis of safety data collected from proactive and reactive activities. In response to these challenges, ICAO develops and prioritizes global SEIs to reduce the risk associated with aviation activities. The GASP identifies two broad categories of challenges and associated initiatives that States are required to address through a NASP and SSP.

3.1.1 Global organizational challenges

Organizational challenges are systemic issues concerning organizational culture, policies and procedures on the effectiveness of safety risk controls. Organizations can include State aviation agencies and service providers (including ATM services providers, aerodrome operators and aircraft operators). ICAO has identified effective safety oversight and effective safety management as requirements to addressing organizational challenges.

3.1.2 Global operational safety risks

Operational safety risks arise during the delivery of a service or the conduct of an aviation activity. The GASP has identified five High Risk Categories (HRCs) of occurrences based on global fatalities, fatality rates and the number of accidents and incidents as follows;

- 1. Controlled flight into terrain (CFIT);
- 2. Loss of control in-flight (LOC-I);
- 3. Mid-air collision (MAC);
- 4. Runway excursion (RE); and
- 5. Runway incursion (RI).

The GASP has detailed specific 'roadmaps' (action plans) on organizational challenges and operational safety risks to support States in achieving the GASP goals.

3.2 Regional challenges and priorities

The diversity of the APAC region, coupled with the severe operational and financial impacts on the aviation industry as a result of the COVID-19 pandemic, and the expected gradual recovery in aviation activity in the region, poses significant challenges for regional aviation safety.

The RASG-APAC, through the 2023–2025 AP- RASP has established the following regional goals:

- I. Reduction in Operational Risks;
- II. Improvements in Safety Oversight and Compliance;
- III. Consistent and effective safety management system (SMS) and SSP;
- IV. Data-driven regulatory oversight; and
- V. Enhanced aviation infrastructure (physical and institutional).

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In addition, the RASP Organizational Roadmap also includes the challenges of an increasingly complex aviation system, an increased need for capability and capacity building, and the limited collection of and use of safety data for decision-making.

3.3 National risks and challenges

The aviation system of Sri Lanka is rapidly changing in light of economic, social and technological developments. Sri Lanka adopts a forward-looking approach to identify emerging aviation trends and associated hazards where possible, and assess risks and implement effective mitigation strategies.

Although Sri Lanka has experienced a very low rate of GASP HRC occurrences over the past decade, in line with GASP & RASP, Sri Lanka will actively manage these HRCs through identification of precursor events which contribute to these HRCs, by implementing strategies to further reduce the rate of incidents and accidents.

For context, in 2018 ICAO measured the effective implementation (EI) of the eight Critical Elements (CE) by Sri Lanka as part of its Universal Safety Oversight Audit Programme Continuous Monitoring Approach (USOAP CMA) is shown in Table 06 in Section 8.

National safety risks & challenges are described in Section 4 of the NASP.

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4. NATIONAL SAFETY ISSUES, GOALS AND TARGETS

The NASP addresses the nine Operational safety risks which includes 5 HRCs defined by GASP –ICAO as given below;

- 4.1 Operational (OPS) Safety Risks
- 1) Controlled Flight into Terrain (CFIT)
- 2) Loss of Control In Flight (LOC-I)
- 3) Mid Air Collision (MAC)
- 4) Runway Excursion (RE)
- 5) Runway Incursion (RI)
- 6) Abnormal Runway Contact (ARC) including Hard Landing and Tail Strike
- 7) Wildlife Strikes (WS) with damage to aircraft
- 8) Ground occurrences resulting in damage to aircraft
- 9) Aircraft significant system failure contributing to safety of the flight
- 4.2 Organizational (ORG) challenges
 - 1) Effective State Safety Oversight System
 - i. Phase 1 Establishment of effective safety oversight framework
 - ii. Phase 2 Implementation of an effective safety oversight system
 - 2) Effective SSP implementation
 - 3) Lack of independent aircraft accident investigation authority.
 - 4) Advance data analysis & risk modelling
 - 5) Effective SMS implementation.
 - 6) Appropriate development and utilization of air navigation and airport core infrastructure to support safe operations.
 - 7) Retention of competent, qualified & skilled staff in industry

4.3 National Goals and Targets

In order to address the issues & challengers listed above and to enhance safety at the national level, the 2023 to 2025 NASP contains the following goals and targets:

OPERATIONAL ROADMAP

Goal 1	Achieve a continuous reduction of operational safety risks.

Goal 1 seeks to achieve continuous reduction of operational safety risks faced by Sri Lanka SSP stakeholders and reflects the ICAO HRCs.

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Target 1.1	No fatal accident (CAT)
Target 1.2	No ground fatalities as a result of an aviation accident
Target 1.3	No accident with aircraft structural damage (CAT)
Target 1.4	50% reduction of serious incidents
Target 1.5	No RI occurrences
Target 1.6	No RE occurrences
Target 1.7	No ARC occurrences

ORGANISATIONAL ROADMAP

Goal 2	Strengthen safety oversight capabilities of Sri Lanka based on
	data driven approach

Goal 2 seeks to improve Sri Lanka's organizational ability and oversight capabilities. Sri Lanka will continue to effectively implement the eight ICAO CEs and ensure the State oversight and governance structure is appropriate to meet State organizational challenges.

Target 2.1	Sri Lanka to improve the score of 87.9% for the effective implementation (EI) of the critical elements (CEs) of the State's safety oversight system (with focus on priority PQs) as follows: By 2025 – up to 89 percent By 2028 – up to 93 percent By 2030 – up to 95 percent
Target 2.2	100% completion of all Priority PQs (self-assessment)
Target 2.3	Sri Lanka to ensure no Significant Safety Concerns (SSCs) raised under the USOAP Continuous Monitoring Approach (CMA).
Target 2.4	100% Safety surveillance achieved against the schedule.
Target 2.5	Develop and maintain a mechanism for data collection, analysis and sharing among all stake holders by 2025
Target 2.6	Sri Lanka to establish an independent accident and incident investigation Bureau (AAIB) as required by ICAO, Annex 13 by 2025.
Goal 3	Implement effective SMS and SSP

Goal 3 seeks to ensure the continued effectiveness and improvement of Sri Lanka's SSP, in achieving aviation safety goals and service providers' level of SMS implementation.

Target 3.1	Sri Lanka to implement the foundation of SSP by 2023.
Target 3.2	Sri Lanka to attain 100% SSP PQs implementation at "present" level by 2025. - 40% completion by 2023 - 100% completion by 2025
Target 3.3	Sri Lanka to implement an effective SSP at maturity level "present & effective" by 2028 - 40% completion by 2025 -100% completion by 2028

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Goal 4	Increase collaboration at the regional level
Goal 4 seeks support from	m APAC States to improve safety performance and outcomes through
enhanced collaboration.	
Target 4.1	Sri Lanka to achieve Goal 2 and 3, may use a regional safety
	oversight mechanism or other safety oversight organizations' ICAO
	recognized functions in seeking assistance to strengthen the safety
	oversight capabilities.
Target 4.2	Sri Lanka to share information on operational safety risks, including
	SSP Safety Performance Indicators (SPIs), and emerging issues to
	Asia Pacific Regional Aviation Safety Group (AP- RASG) on
	request.
Goal 5	Expand the use of industry programmes and safety information
	sharing networks by service providers
Goal 5 seeks to increase	industry participation with relevant industry programmes, as well as

Goal 5 seeks to increase industry participation with relevant industry programmes, as well as harmonize service providers' performance indicators. This would facilitate improvements in safety risk management at the national, regional and global level and foster better engagement. Industry programmes often encourage service providers to strive for higher levels of safety than otherwise required by States, though do not replace State safety oversight.

Target 5.1	Sri Lanka to establish a national safety information sharing networks				
	by 2025.				
Goal 6:	Ensure Sri Lanka has the appropriate infrastructure (physical				
	and institutional) to support safe operations				
	Goal 6 seeks to ensure that Sri Lanka has the appropriate infrastructure to support safe				
	operations. It is linked to State's obligations under the ICAO Global Air Navigation Plan (GANP) and seeks ongoing investment in Sri Lanka's air navigation and airport core				
infrastructure to maintain compliance with safety standards.					
Target 6.1	Sri Lanka to implement the Air Navigation Plan and airport infrastructure development by 2025.				

Table 02: Goals and Targets of the NASP 2023-2025

4.4 Acceptable level of safety performance

Each safety goal contributes to an overall acceptable level of safety performance for Sri Lanka. Sri Lanka's acceptable level of safety performance, or the sum output of Sri Lanka's safety goals, is:

"No accidents involving commercial air transport that result in serious injuries or fatalities, no serious injuries or fatalities to third parties as a result of aviation activities and improving safety performance across all sectors."

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4.5 Sri Lanka's safety goals and their alignment with global and regional goals

	Goal 1:	Goal 2:	Goal 3:	Goal 4:	Goal 5:	Goal 6:
GASP	Achieve a continuous reduction of operational safety risks	Strengthen States' safety oversight capabilities	Implement effective State safety programmes (SSPs)	Increase collaboration at the regional level	ration use of industry Il programmes and safety information sharing networks by service providers	Ensure the appropriate infrastructure is available to support safe operations
RASP	Reduction in Operational Risks;	Improvements in Safety Oversight and Compliance	Consistent and effective SMS and SSP	Data-driven regulatory oversight		Enhanced aviation infrastructure (physical and institutional).
NASP	Achieve a continuous reduction of operational safety risks	Strengthen safety oversight capabilities of Sri Lanka based on data driven approach	Implement effective SMS and SSP	Increase collaboration at the regional level	Expand the use of industry programmes and safety information sharing networks by service providers	Ensure Sri Lanka has the appropriate infrastructure (physical and institutional) to support safe operations

Table 03: Safety goals and their alignment.

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5. PURPOSE OF SRI LANKA'S NATIONAL AVIATION SAFETY PLAN

The NASP is the master planning document containing the strategic direction of Sri Lanka for the management of aviation safety for a period of 3 years (2023 to 2025). This plan lists national safety issues, sets national aviation safety goals and targets, and presents a series of safety enhancement initiatives (SEIs) to address identified safety deficiencies and achieve the national safety goals and targets.

The National Civil Aviation Policy of Sri Lanka addresses all aspects of air transport at the State level, with the objective of providing a clear and comprehensive planning and implementation strategy for the future development of the entire civil aviation sector. The NASP contains in-depth information specific to aviation safety aspects that are referenced in the National Civil Aviation Policy of Sri Lanka.

The NASP has been developed using international safety goals and targets and HRCs from both the GASP and the AP-RASP. The SEIs listed in the NASP support the improvement of safety at the wider regional and international levels and include several actions to address specific safety risks and recommended SEIs for individual States set out in the AP-RASP. Sri Lanka has adopted these SEIs and has included them in this plan.

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6. SRI LANKA'S STRATEGIC APPROACH TO MANAGING AVIATION SAFETY

The NASP presents the SEIs that were developed based on the organizational challenges (ORG) and operational safety risks (OPS), as presented in the ICAO global aviation safety roadmap, as well as local specific issues identified by past data. This plan is developed and maintained by Civil Aviation Authority of Sri Lanka, in coordination with all stakeholders and is updated at least every 3 years.

The NASP includes the following national safety goals and targets, for management of aviation safety, as well as a series of indicators to monitor the progress made towards their achievement. They are tied to the goals, targets and indicators listed in the GASP and the AP-RASP and include additional national safety goals, targets and indicators.

Safety Goal	Safety Performance Target	Safety Performance Indicators	Link to GASP and RASP
1. Achieve a continuous reduction of operational safety risks	1.1. No fatal accident (CAT)	A. Fatal accident (CAT) per 10,000 take offs and landings	This goal is directly linked to Goal 1 and Target 1.1 of the GASP and linked to Goal 1 and Targets
	1.2. No ground fatalities as a result of an aviation accident	B. Number of ground fatalities per year	T1, T2 and T3 of the RASP.
	1.3. No accident with aircraft structural damage (CAT)	C. Accident with aircraft structural damage (CAT) per 10,000 take offs and landings .	
	1.4. 50% reduction of serious incidents	D. Serious incident (CAT) per 10,000 take offs and landings.	
	1.5. No RI occurrences.	E. Number of RI per 10,000 take offs and landings.	
	1.6. No RE occurrences	F. Number of RE per 10,000 take offs and landings.	
	1.7. No ARC occurrences	G. Number of ARC per 10,000 take offs and landings.	

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2. Strengthen the State's safety oversight capabilities based data driven approach	2.1 Sri Lanka to improve its score for the effective implementation (EI) of the critical elements (CEs) of the State's safety oversight system (with focus on priority PQs) as follows: by 2025 – up to 89 per cent by 2028 –up to 93 per cent by 2030 – up to 95 per cent	 A. Achieving of overall EI score as per the timelines. B. Percentage of required corrective action plans (CAPs) submitted by Sri Lanka (using OLF). C. Percentage of completed CAPs. D. Percentage of filling of differences. 	This goal is directly	
	2.2 100% completion of all Priority PQs self-assessment	E. Number self - assessments completed for priority PQs by Sri Lanka.		
	2.3 Sri Lanka to ensure no Significant Safety Concerns (SSCs) raised under the USOAP Continuous Monitoring Approach (CMA).	A. Number of ICAO significant safety concern Audit findings.	This goal is directly linked to GASP Goal 2 and APRASP Target T8	
	2.4 100% Safety surveillance achieved against schedule	Safety surveillance events completed per year.	This goal is directly linked to GASP Goal 2	
	2.5 Develop and maintain a mechanism for data collection, analysis and sharing among all stake holders by 2025.	Number of MOR received each year Number of Voluntary reports each year Industry Safety data reports Surveillance Reports per year	This goal is directly linked to GASP Goal 2	
	2.6 Sri Lanka to establish an independent accident and incident investigation authority (AAIB) as	A. Establishment of an independent accident and incident investigation Bureau	This goal is directly linked to Goal 6 of GASP and Goal 5; Target 19 of APRASP.	
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	required by ICAO Annex 13 by 2025.	(AAIB) as required by ICAO Annex 13.	
Goal 3: Implement effective State safety programmes (SSPs) and Safety Management System (SMS)	3.1: Sri Lanka to implement the foundation of SSP by 2023.	A. Foundational SSP PQs self-assessment (%) B. Percentage of satisfactory SSP foundational PQs This goal is directly linked to Goal 3 and Target 3.1 of the GASP and Target T12 of AP-RASP.	
	3.2: Sri Lanka to attain 100% SSP PQs implementation at "present" level by 2025. - 40% completion by 2023 - 100% completion by 2025	A. Number of completed SSP PQs (self-assessment) by 2023. B. Number of completed SSP PQ (self-assessment) by 2025. This goal is directly linked to Goal 3 and Target 3.1 of the GASP and Target T12 of AP-RASP.	
	3.3 Sri Lanka to implement an effective SSP at maturity level "present & effective" by 2028. - 40% completion by 2025 -100% completion by 2028	A. Number of SSP PQ effectively linked to Goal 3 and Target 3.2 of the GASP and Target T13 of AP-RASP. effectively implemented by 2028.	
Goal 4: Increase collaboration at the regional level	4.1: Sri Lanka to achieve Goal 2 and 3, may use a regional safety oversight mechanism or other safety oversight organizations' ICAO recognized functions in seeking assistance to strengthen the safety oversight capabilities.	A. Sri Lanka has requested assistance from EU-SA in the following areas; a. Aerodrome Regulation b. Operations c. Personnel Licensing	
	4.2: Sri Lanka to share information on operational safety risks, including SSP Safety Performance Indicators (SPIs),	A. Sri Lanka to share information on safety risks to RASGs This goal is directly linked to Goal 4; Target 4.2 of the GASP and Goal 4; T14 of AP-RASP.	

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	and emerging issues to Asia Pacific Regional Aviation Safety Group (AP-	B. Sri Lanka sharing its SSP SPIs with RASGs C. Sri Lanka
	RASG) on request.	C. Sri Lanka forwarding information on safety matters to ICAO, RASGs, States or other stakeholders.
Goal 5: Expand the use of industry programmes and safety information sharing networks by service providers	5.1: Establish a national safety information sharing networks by 2025.	A. Establishment of safety data collection and processing systems (SDCPS) to facilitate participation in a safety information-sharing network. This goal is directly linked to Goal 5 and Target 5.1 of the GASP.
		B. Number of service providers & Operators contributing to an SDCPS or a safety information sharing network.
		C. Percentage of service providers participating in the corresponding ICAO-recognized industry assessment programmes.
Goal 6: Ensure Sri Lanka has the appropriate infrastructure (physical and institutional) to support safe	6.1: Sri Lanka to implement the Air Navigation Plan and airport infrastructure development by 2025.	A. Implementation of first phase of Air Navigation Plan by end of 2024. B. Completion of Terminal II
operations		development project by end of 2025.

Table 04: National safety goals, targets and indicators

The SEIs in this plan are implemented through Sri Lanka's existing safety oversight capabilities, operators and service providers' SMS. SEIs derived from the ICAO global aviation safety roadmap were identified to achieve the national safety goals and targets presented in the NASP. Some of the national SEIs are linked to overarching SEIs at the regional and international levels

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and help to enhance safety globally. The full list of the SEIs is presented in the Appendix A and B to the NASP.

The NASP will also addresses emerging issues. Emerging issues include concepts of operations, technologies, public policies, business models or ideas that might impact safety in the future, for which insufficient data exists to complete typical data-driven analysis. It is important that Sri Lanka remain vigilant on emerging issues to identify potential safety risks, collect relevant data and proactively develop mitigations to address them. The NASP will addresses the following emerging issues as required, which were identified by analysis of past data.

Volatility in the geopolitical and economic environment – With many airlines having a global footprint they are naturally at risk of facing external factors, such as political tension and economic conjectures. In the commercial aviation sector, political stability and sustained economic growth are known to be major factors that drive long-term growth in air traffic.

In regard to the geopolitical landscape, the aviation industry in Sri Lanka, may also face a series of challenges in the near future. A potential economic slowdown could be one of these major challenges for the industry. A slowdown could ultimately cause airlines in Sri Lanka to review order intake strategies and postpone or cancel current aircraft orders. If orders are cancelled, multiple issues may arise for the aviation industry as a whole.

Managing the supply chain – As new aircraft deliveries in the coming years are set to keep the supply chain extremely busy, suppliers will have to increase efforts to ensure timely deliveries whilst maintaining quality standards and controlling costs. Therefore, this will leave suppliers vulnerable and could lead to the risk that companies may have disputes with suppliers or subcontractors related to work specifications, quality of supply or customer concerns.

Foreign currency and commodity price fluctuations - With currency exchange rates continuing to fluctuate, given that a large amount of aviation companies operate on both a national and international basis, and that their revenues are earned in a variety of currencies, they are vulnerable to these fluctuations. Additionally, the currency fluctuation affects payables and receivables denominated in foreign currencies. Fluctuation in commodity prices can also lead to issues in the aviation supply chain, resulting in late deliveries and an increased probability of failure by smaller suppliers.

To address the issues listed above, Sri Lanka will implement a series of SEIs, some of which are derived from the ICAO ORG roadmap, contained in the GASP. The full list of the SEIs is presented in the appendix to the NASP.

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7. NATIONAL OPERATIONAL SAFETY RISKS

The NASP includes SEIs that address national operational safety risks, derived from lessons learned from operational occurrences and from a data-driven approach. These SEI may include actions such as: rule-making, policy development, targeted safety oversight activities, safety data analysis, and safety promotion. Separate sections are provided to address commercial air transport, in order to make the information more accessible to stakeholders.

Sri Lanka publishes an annual safety data in it's Annual Report and published in the CAASL website [www.caa.lk]. The summary of accidents and serious incidents that occurred in Sri Lanka and those for aircraft registered in Sri Lanka involved in commercial air transport are shown in the table below.

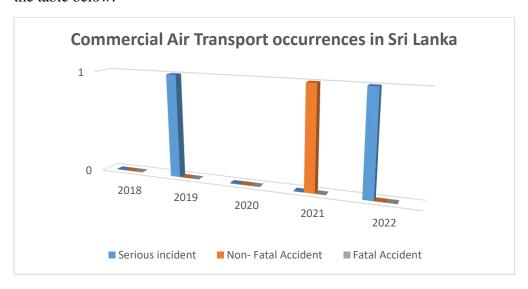


Figure 01: CAT occurrences within the territory of Sri Lanka

Commercial air transport occurrences within the territory of Sri Lanka

Occurrence Category	2018	2019	2020	2021	2022
Serious incident	0	1	0	0	1
Non- Fatal Accident	0	0	0	1	0
Fatal Accident	0	0	0	0	0

Table 05: Safety data from 2018 to 2022

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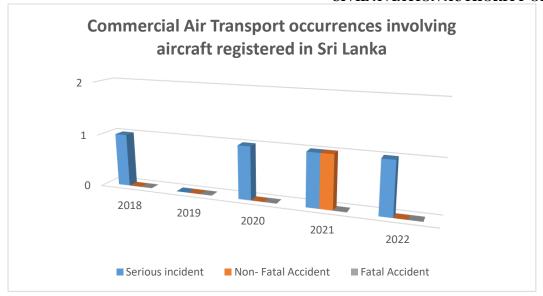


Figure 02: CAT occurrences involving aircraft registered in Sri Lanka

Commercial air transport occurrences involving aircraft registered in Sri Lanka

	2018	2019	2020	2021	2022
Serious incident	1	0	1	1	1
Non- Fatal Accident	0	0	0	1	0
Fatal Accident	0	0	0	0	0

Table 06: Safety data from 2018 to 2022

The following 09 national high-risk categories of occurrences (HRCs) in the context of Sri Lanka were considered of the utmost priority because of the risk associated with such events. They were identified based on analyses from mandatory and voluntary reporting systems, accident and incident investigation reports, safety oversight activities over the past 03 years, the SSP (if applicable to the State), as well as on the basis of regional analysis conducted by ICAO-APAC and on the operational safety risks described in the GASP. These HRCs are in line with those listed in the 2023-2025 edition of the GASP, as well as the RASP of APAC.

- 1. Controlled Flight into Terrain (CFIT)
- 2. Loss of Control In flight (LOC-I)
- 3. Mid Air Collision (MAC)
- 4. Runway Excursion (RE)
- 5. Runway Incursion (RI)
- 6. Abnormal Runway Contact (ARC) including Hard Landing and Tail Strike
- 7. Wildlife Strike (WS) with damage to aircraft
- 8. Ground occurrences resulting in damage to aircraft
- 9. Aircraft significant system failure contributing to safety of the flight

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In addition to the national operational safety risks listed above, the following additional categories of operational safety risks have been identified:

- 1) Drones operations, fireworks and kite flying in the vicinity of aerodromes
- 2) Laser light interferences
- 3) Human Factors

The aviation occurrence categories from the CAST/ICAO Common Taxonomy Team (CICTT) were used to assess risk categories in the process of determining national operational safety risks. The CICTT Taxonomy is found on the ICAO website at https://www.icao.int/safety/airnavigation/AIG/Pages/Taxonomy.aspx.

To address the national operational safety risks listed above, CAASL identified the following contributing factors leading to HRCs and will implement a series of SEIs, some of which are derived from the ICAO OPS roadmap, contained in the GASP and AP-RASP.

HRC 1: Controlled Flight into Terrain (CFIT)

- 1. Critical terrain and rapidly deteriorating weather condition.
- 2. Violation of SOP
- 3. Improper pilot response to stall warning.
- 4. Excess load on the front bench seat in the helicopters.
- 5. Loss of situational awareness of pilots.
- 6. Insufficient operational oversight from the organization.
- 7. Inadequate pre-flight planning and lack of consideration on individual load while preparing load and trim sheet

HRC 2: Loss of Control - In flight LOC-I

- 1. Violation of SOP by pilots
- 2. Inadequate pre-flight planning and lack of consideration on individual hand and load checked baggage while preparing load and trim sheet.
- 3. Inadequate training requirements relating to engine malfunction and proper loading of aircraft.
- 4. Insufficient oversight by regulatory especially in the field of periodic check of load sheet.
- 5. Insufficient wildlife control programme.

HRC 3: Mid Air Collision (MAC)

- 1. Traffic Volume and pattern
- 2. Adequate trainings to ATCOs and Pilots
- 3. Lack of SOPs/MOUs for effective coordination
- 4. Violations of existing MOUs/SOPs and agreements

HRC 4: Runway Excursion (RE)

- 1. Loss of Situational awareness
- 2. Violation of SOP by pilots

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- 3. Lack of training (before landing in contaminated runway, and CRM)
- 4. Lack of procedures (to operate in contaminated runway)
- 5. Lack of experience of pilot for night flying
- 6. Poor runway surface maintenance activities
- 7. Lack of information dissemination

HRC 5: Runway Incursion (RI)

- 1. Loss of Situational awareness of ATCs and pilots
- 2. Violation of SOP by ATCs and pilots
- 3. Lack of training (communication and CRM)
- 4. Insufficient wildlife control programme

HRC 6: Abnormal Runway Contact (ARC) including Hard Landing and Tail Strike

- 1. Violation of SOPs
- 2. Lack of training
- 3. Inadequate weather information

HRC 7: Wildlife Strike (WS) with damage to aircraft

- 1. Birds inhabiting airport and surrounding areas
- 2. Inadequate bird scaring activities
- 3. Insufficient wildlife control programme in Aerodrome.
- 4. Violation of regulations (slaughter houses near of airports/within 3 km of airport)
- 5. Lack of study on wildlife habitat management near aerodromes.

HRC 8: On ground occurrences resulting in damage to aircraft

- 1. Loss of Situational awareness of ground staff
- 2. Violation of SOP
- 3. Improper communication among ground staff, crew and ATC
- 4. Lack of training
- 5. Aging of Ground equipment

HRC 9: Aircraft significant system failure contributing to safety of the flight

- 1. Improper maintenance checks.
- 2. Inadequate SOPs
- 3. Aging of the aircraft
- 4. Inability to oversee operations due to poor training, operational procedures
- 5. Inability to replace components timely

Note: The full lists of the OPS and ORG SEIs are presented in the Appendix A & B to the NASP of Sri Lanka.

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8. OTHER SAFETY ISSUES

In addition to the national operational safety risks listed in the NASP, Sri Lanka has identified other safety issues and initiatives selected for the NASP. These are given priority in the NASP since they are aimed at enhancing and strengthening Sri Lanka's safety oversight capabilities and the management of aviation safety at the national level.

The eight critical elements (CEs) of a safety oversight system are defined by ICAO. CAASL is committed to the effective implementation of these eight CEs, as part of its overall safety oversight responsibilities, which emphasize CAASL's commitment to safety in respect of its aviation activities. The eight CEs are presented in Figure 03 below.

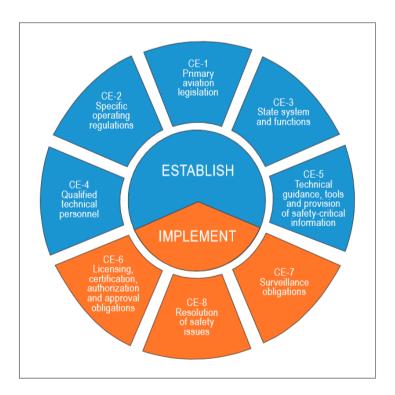


Figure 03: Critical elements of a State's Safety Oversight system

The latest ICAO activities, which aim to measure the effective implementation of the eight CEs of Sri Lanka's safety oversight system, as part of the ICAO Universal Safety Oversight Audit Programme (USOAP) conducted in 2018, have resulted in the following scores:

	Overall EI score							
EI score by CE (%)								
CE-1	CE-2	CE-3	CE-4	CE-5	CE-6	CE-7	CE-8	
96.43	82.05	91.38	80	96.12	93.22	73.96	84.62	
EI score by	EI score by audit area							
LEG	ORG	PEL	OPS	AIR	AIG	ANS	AGA	
100	100	89.29	87.29	91.84	90	75.45	91.67	

Table 07: EI Score

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The safety oversight index (SOI) of a State is an ICAO indicator of its safety oversight capabilities. Every State audited by ICAO has a SOI. It is a number greater than zero, where number "one" represents a level at which the safety oversight capabilities of a State would indicate the minimum expected capabilities considering the number of departures as an indication of the size of that State's aviation system. The calculations conducted by ICAO of Sri Lanka's SOI have resulted in the following scores:

Overall SOI score	verall SOI score Score in the area of Operations		Score in the area of Support Functions	
1.80	1.80 1.45		2	

Table 08: Safety Oversight Index of Sri Lanka

Following 3 CEs have been considered of the utmost priority because they are systemic issues which impact the effectiveness of safety risk controls. They were identified based on analysis from USOAP data. These issues are typically organizational in nature and relate to challenges associated with the conduct of States' safety oversight functions, implementation of SSP at the national level, and the level of SMS implementation by air operators and service providers. These safety issues are in line with those listed in the 2023 to 2025 edition of the GASP, as well as 2023 to 2025 edition of the AP-RASP:

- 1) Lack of independent aircraft accident and incident investigation organization at the national level.
- 2) Critical Elements based on EI scores for Sri Lanka
 - I. Surveillance Obligations (CE -7): This was the CE where Sri Lanka received the lowest EI score during the most recent ICAO USOAP audit. Therefore this CE was placed as a high priority issue to resolve.
 - II. Qualified Technical Personnel (CE -4): This was the CE where Sri Lanka received the second lowest EI score during the most recent ICAO USOAP audit.
- III. Specific Operating Regulations (CE -2): This was the third lowest CE of Sri Lanka identified during the most recent ICAO USOAP audit and was therefore placed as a high priority issue to resolve.

Note: APAC region has lower EI scores for CE-4 on Technical personnel qualifications and training, and CE-7: Surveillance Obligations and CE8 on Resolution of safety concerns. Therefore, those CEs have been placed as high priority issues to resolve in the regional level under APRASP. Sri Lanka has put specific emphasis on resolution of safety concerns.

Global COVID-19 pandemic – Post COVID-19, it is now vital that trust is rebuilt among passengers as airlines and aviation authorities are focusing on taking credible measures towards sustainability.

Ageing aircraft fleet – With many aircraft reaching the end of their life-cycles, there is a possibility of airlines immediately incurring unexpected, high maintenance costs due to

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component, structural or integrity issues. This may also lead to catastrophic failures or contribute to accidents & incidents without prior indication.

Workforce capability – With companies facing economic difficulties, it is common that companies resort to salary reductions as a method of cost-control. This causes a shortage in the talented, engaged and specialized workforce, as they explore employment options internationally. Because of the highly specialized nature of the aviation industry, it is now vital that companies to have strategies to retain the skilled and qualified personnel necessary to perform the business-critical processes.

RPAS - The use of recreational and commercial operations of RPAS has continued to expand in Sri Lanka in recent past years. As RPAS technology improves, the use of new models has been increased in Sri Lanka. Aviation safety, air traffic management and security issues require effective management and monitoring capability to ensure RPAS operations are safely and securely integrated into Sri Lanka airspace alongside traditional flight operations.

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Safe and Efficient Skies for all

CIVIL AVIATION AUTHORITY OF SRI LANKA

9. MONITORING IMPLEMENTATION

CAASL will continuously monitor the implementation of the SEIs listed in the NASP and measure safety performance of the national civil aviation system, to ensure the intended results are achieved, using the mechanisms presented in the appendix to this plan.

In addition to the above, CAASL will review the NASP every three years or earlier, if required, to keep the identified operational safety risks, safety issues and selected SEIs updated and relevant. CAASL will periodically review the safety performance of the initiatives listed in the NASP to ensure the achievement of national safety goals and targets. If required, CAASL seeks the support of the RASG and industry to ensure the timely implementation of SEIs to address safety deficiencies and mitigate risks. Through close monitoring of the SEIs, CAASL will make adjustments to the NASP and its initiatives, if needed, and update the NASP accordingly.

CAASL will use the indicators listed in Section 6 of this Plan to measure safety performance of the civil aviation system and monitor each national safety target. Annual safety reviews will be published to provide stakeholders with relevant up-to-date information on the progress made in achieving the national safety goals and targets, as well as the implementation status of the SEIs.

In the event that the national safety goals and targets are not met, the root causes will be presented. If CAASL identifies critical operational safety risks, reasonable measures will be taken to mitigate them as soon as practicable, possibly leading to an unscheduled revision of the NASP.

Sri Lanka adopted a standardized approach to provide information at the regional level, for reporting to the RASGs. This allows the region to receive information and assess operational safety risks using common methodologies.

Any questions regarding the NASP and its initiatives, and further requests for information, may be addressed to the following:

Director General of Civil Aviation Civil Aviation Authority of Sri Lanka No 152/1, Minuwangoda Road Katunayake Sri Lanka

sldgca@caa.lk (copy to mgrasm@caa.lk) +94-112538802/817 www.caa.lk

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10. APPENDIX A - SRI LANKA OPS ROADMAP

DETAILED SEIS: NATIONAL OPERATIONAL SAFETY RISKS

HRC 1: Controlled Flight Into Terrain (CFIT)

Goal 1: Achieve a continuous reduction of operational safety risks

Target:

1.1. No fatal accident (CAT)

- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents

Safety	Action	Timeline	Responsible	Stakeholders	Metrics/Indicat	Priority	Monitoring
enhancement			entity		ors		Activity
initiative							
GASP OPS SEI	1. Implement the following CFIT		FSR Division	Industry	TAWS /GPWS	High	Occurrence
on CFIT (State)	safety actions:			Partners	warning per		reporting
— Mitigate	a. Ensure aircraft are equipped	Implemented.			10,000 take offs		(MOR/VOR)
contributing	with terrain awareness and			(Air Operator,	and landings		
factors to the	warning system (TAWS) in			Aerodrome			Surveillance
risk of CFIT	accordance with Annex 6.			Operator,	MSAWs per		activities
				ANSP)	10,000 take offs		
	b. Issue a Safety Advisory to				and landings		FDA inspections
	increase adherence to TAWS	2023	FSR Division				by CAASL
	warning procedures.						_
							Monitoring of
	c. Promote the use of GPS-derived						relevant
	position data to feed TAWS	Implemented.	FSR Division				SPTs/SPIs of
	1	1					ANSP and other
	d. Regulation on Ground						stake holders.
	Proximity Warning System	Implemented	FSR Division				
	(GPWS).	1					

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e. Advisory Circular/Guidance for Operators to Ensure Effectiveness of GPWS Equipment	2023	FSR Division		ATS reports (on MSAW)
f. Guidance for Operators on Training Programme on the use of GPWS	2025	FSR Division		
g. Implement minimum safe altitude warning (MSAW) systems	Implemented	ASR Division		
h. Issuance of Terrain or Obstacle Alert Warning	2025	ASR Division		
i. Ensure the timeliness of updates and accuracy of Electronic Terrain and Obstacle Data (eTOD)	2025	ASR Division		
j. Guidance on the Establishment of a Flight Data Analysis Programme (FDAP)	Implemented	FSR Division		
k. General Directive on Crew Resource Management Training Programme (CRM)	Implemented	FSR Division		
 Advisory Circular - Controlled Flight into Terrain (CFIT) and Approach and Landing Accident 	Implemented	FSR Division		

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	Reduction (ALAR) Training Programme.						
m.	Guidance for Air Operators in Establishing a Flight Safety Documents System.	Implemented	FSR Division				
2.	Validate the effectiveness of this safety enhancement initiatives (SEIs) through the analysis of mandatory occurrence reporting (MORs) and voluntary occurrence reporting systems (VORs) and accident/incident investigations (apply safety management methodologies).	Continuous Process	FSR and ASR Divisions	Industry Partners	TAWS /GPWS warning per 10,000 take offs and landings. MSAWs per 10,000 take offs and landings.	High	Surveillance activities Monitoring of relevant SPTs/SPIs of service providers / operators. Occurrence reporting (MOR/VOR)
	Identify additional contributing factors: Flight in adverse environmental conditions.	2025	FSR and ASR Divisions	Industry Partners	Altitude changes and diversion due to weather per 10,000 take offs and landings.	High	Safety reporting (MOR/VOR) Surveillance activities. ATC Reports
b.	Approach design and documentation (e.g. approaches with vertical guidance (APV) or localizer performance with vertical guidance (LPV) approaches).	Implemented in main International Airport	ASR Division	ANSP	Number ground-based Nav. aid malfunctioning or unserviceabilit y events per 10,000 take offs and landings.		RT/ATC reports Fatigue Reports Monitoring the safety data of ANSP/ Surveillance

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c.	Phraseology used (standard vs. non-standard) Pilot fatigue and disorientation.	Implemented	ASR Division	ANSP	Percentage of non- compliance to standard phraseology		Random checks
4.	Develop and implement further SEIs to mitigate the risk of the identified contributing factors, if any, for CFIT.	Continuous process	FSR and ASR Divisions	Industry Partners		High	Surveillance activities Occurrence reporting (MOR/VOR)
5.	Conduct continuous evaluations of the performance of the SEIs.	Continuous process	FSR and ASR Divisions	Industry Partners		High	Surveillance activities. Occurrence reporting (MOR/VOR)

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HRC 2: Loss of Control – In flight (LOC-I)

Goal 1: Achieve a continuous reduction of operational safety risks

Target:

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
GASP OPS SEI on LOC-I (State) — Mitigate contributing factors to the risk of LOC-I accidents and incidents	Implement the following LOC-I safety actions: Develop guidance materials on upset prevention and recovery training in all full flight simulator type conversion and recurrent training programmes and ensure implementation.	Implemented	FSR Division	Industry Partners (Air Operator, ANSP)	Low airspeed occurrences per 10,000 take offs and landings. Icing condition/Windshear /severe turbulence occurrences per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Flight Data Monitoring via inspection. Surveillance activities. Monitoring of
	 b. Require more time devoted to training for the pilot monitoring role. c. Advisory Circular — "Air Operators Standard Operating Procedures for Flight Deck Crewmembers" 	Implemented	FSR Division FSR Division		Loss of thrust occurrences per 10,000 take offs and landings. Abnormal Flight Control inputs per 10,000 take offs and landings.		relevant SPTs/SPIs of AN service provider / operators.

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d. e.	Flight Crew Proficiency.	Implemented Implemented			Pilot/human induced inputs per 10,000 take offs and landings.		
2.		Continuous process	FSR Division	Industry Partners		High	Occurrence reporting (MOR/VOR) Surveillance activities. Monitoring of relevant SPTs/SPIs of service providers / operators.
3. a. b. c. d. f.	Identify additional contributing factors: Distraction Adverse weather Complacency Inadequate standard operating procedures (SOPs) for effective flight management Insufficient height above terrain for recovery Lack of awareness of or competence in procedures	Implemented	FSR Division	Industry Partners	FDA data on LOC-I	High	Occurrence reporting (MOR/VOR) Surveillance activities FDA Reports

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					CIVIL A VIATION AUTIO	KILL OF B	IXI LANKA
g.	for recovery from unusual aircraft attitudes Inappropriate flight control inputs in response to a sudden awareness of an abnormal bank angle.						
4.	Develop and implement further SEIs to mitigate the risk of the identified contributing factors, if any, for LOI-C.	Continuous process	FSR Division	Industry Partners		High	Occurrence reporting (MOR/VOR) Surveillance activities.
5.	Conduct continuous evaluations of the performance of the SEIs.	Continuous process	FSR Division	Industry Partners		High	Surveillance activities. Occurrence reporting (MOR/VOR)

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HRC 3: Mid Air Collision (MAC)

Goal 1: Achieve a continuous reduction of operational safety risks Target 1.1: Maintain a decreasing trend of the national accident rate

Safety enhancement	Ac	tion	Timeline	Responsible entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
initiative				entity				Activity
GASP OPS SEI on MAC (State) — Mitigate contributing factors to risk of MAC accidents and incidents	1. a.	Implement the following MAC safety actions: Establish guidance and regulations to ensure aircraft are equipped with airborne collision avoidance system (ACAS), in accordance with ICAO Annex 6.	Implemented	FSR Divisions	Industry Partners (Air Operator, ANSP)	Number of TCAS/TAWS warnings per 10,000 take offs and landings. Loss of separation occurrences per 10,000 take offs and landings. Non adherence to ATC	High	Occurrences reporting (MOR/VOR) Surveillance activities Monitoring of relevant SPTs/SPIs of
	b.	_	Implemented	ASR Division	ANSP	instructions by Pilots for 10,000 take offs and landings.		service providers / operators.
	c.	Promote the improvement of air traffic control (ATC) systems, procedures and tools to enhance conflict management	Implemented	ASR Division	ANSP	Number of TCAS (RA/TA) alerts received per month Number of unserviceability reported ADS – C/ATM system		reports FDA reports Safety Data of ANSP Surveillance
	d.	Promote the improvement of communications systems and procedures, such as controller pilot data link.	Implemented	ASR Division	ANSP	per month		activities Safety Reports

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					CIVIL AVIATION AUTHO	KILL OF S	KI LANKA
3.	of the SEIs through the analysis of MORs and VORs and accident/incident investigations (apply safety management methodologies) Identify additional	Continuous process	FSR and ASR Divisions	Industry Partners	Number of LHDs per annum Number of separation minima infringements reported per 10,000 movements	High	Occurrence reporting (MOR/VOR) Surveillance activities
a. b.	density, complexity, mixture of aircraft types and capabilities, etc.	Implemented	ASR Divisions ASR Divisions	Industry Partners	Number of occasions that the ATC sector capacity has exceeded per month	High	Surveillance activities Occurrences reporting (MOR/VOR)
c.	Flight crew training and corporate culture with workload, competence, teamwork, procedures, commitment etc., and the influence of aircraft operator's safety management	Implemented	FSR Divisions				

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	d.	ATC systems - flight data	Implemented	ASR			
		processing,		Divisions			
		communication, short					
		term conflict alert					
		(STCA), etc., as well as					
		the interaction with the					
		human operators and the					
		aircraft systems, and the					
		procurement policy of the					
		ANSP.					
	e.	Aircraft equipment -	Implemented	FSR Divisions			
		autopilots, transponders					
		and ACAS, but also					
		aircraft performance (e.g.					
		rate-of-climb) and their					
		physical size.					
						~	
	f.	Navigation infrastructure	Implemented	ASR	Number of surveillance	Safety data of	
		- both coverage and		Divisions	systems (Radar/ ADS –	ANSP	
		quality			B) C/ ATM system		
		0 31 1.4	T 1 . 1	A CD	failures		
	g.	Surveillance - both	Implemented	ASR			
		coverage and quality		Divisions			
	h	Flight plan processing -	Implemented	FSR Divisions			
	11.	efficiency and reliability	mpiementeu	LOK DIVISIONS			
		of flight plan submission,					
		approval and distribution					
		approvai and distribution					
	i.	Airspace - complexity of	Implemented	ASR			
	1.	airspace design, route	mpiemented	Divisions			
		layout, extent of		21,1010110			
		controlled or uncontrolled					

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				CIVILITION NOTICE		/111 23111 (1111
airspace, proximity or military operational or training areas, etc. j. Flight in adverse environmental conditions that may influence conflict management and collision avoidance.	Implemented	FSR Divisions				
4. Develop and implemen further SEIs to mitigate the risk of the identified contributing factors, is any, for MAC.	process	ASR and FSR Divisions	Industry Partners		High	Surveillance activities. Occurrence reporting (MOR/VOR
5. Conduct continuous evaluations of the performance of the SEI		ASR and FSR Divisions	Industry Partners		High	Surveillance activities. Occurrence reporting (MOR/VOR

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HRC 4: Runway Excursion (RE)

Goal 1: Achieve a continuous reduction of operational safety risks

Target

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents
- 1.5. No RE occurrences

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indica tors	Priority	Monitoring Activity
GASP OPS SEI on RE (State) — Mitigate contributing factors to risk of RE accidents and incidents	Implement the following RE safety actions: Ensure the establishment and implementation of a State Runway Safety Programme (RSP) and Runway Safety Teams (RST) in all certified aerodromes.	Implemented.	ASR Division	Industry Partners (Air Operator, Aerodrome Operator, ANSP)	Unstabilized approaches occurrences per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance activities. Monitoring of relevant
	b. Promote the establishment of policy and training on rejected landings, go-arounds, crosswind and tailwind landings (up to the maximum manufacturer-demonstrated winds).	Implemented	FSR Division		off events per 10,000 take offs and landings.		SPTs/SPIs of service providers / operators. FDA reports
	c. Promote equipage of runway overrun awareness and alerting systems on aircraft	Implemented	FSR Division		Thrust asymmetry occurrences per 10,000		

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 			CIVILITY	Intion neitho	MILL OF D	*** *** *****
		ASR		take offs and		
		Division		landings.		
				No of go-		
				arounds per		
d. Ensure effective and timel	y Implemented	ASR		5,000		Safety data of
reporting of meteorological an		Division		landings.		ANSP
aerodrome conditions (e.g. runwa		Division		landings.		711101
surface condition in accordance to				No of		
the ICAO global reporting format i				overruns/ veer		
Annex 14, Volume I, braking action						
	11			off events per		
and revised declared distances)				5,000		
	T 1 . 1	A CID		landings.		
e. Certify aerodrome in accordance	•	ASR				
with ICAO Annex 14, Volume I a		Division		Number of		
well as Doc 9981, PANS	S-			wind shear		
Aerodrome				reports of		
				Pilots during		
1	o Implemented	ASR		landing & take		
systematically reduce the rate of	of	Division		- off (per		
unstabilized approaches to runway	'S			month)		
are developed and used.						
·						
g. Guidance material and training	g Implemented	ASR		Number of		
program for runway pavemen		Division		overruns/veer		
maintenance and operations from				off events		
aerodrome operator's perspective.				during		
more are the operator of perspectives				SNOWTAM		
				activation per		
				year.		
				year.		
				Number of		
				overruns/ veer		
				off -during		

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			CIVILIIV	minonine	MITT OF B	IXI LITTI IIXI
				maintenance planning level of runway friction per year.		
2. Validate the effectiveness of the SEI through the analysis of MORs, VORs and accident/incident investigations (apply safety management methodologies).	Continuous process	FSR and ASR Divisions	Industry Partners	Above metrics	High	Occurrence reporting (MOR/VOR) Surveillance activities.
3. Identify additional contributing factors:a. Ineffective SOPs	2025 2025	FSR/ASR Divisions	Industry Partners		High	Occurrence reporting (MOR/VOR)
b. Failure to adhere to the appropriate SOPs	Implemented	FSR/ASR Divisions				Surveillance activities.
c. Long/floated/bounced/firm/off-centre/crabbed landing	2025	FSR Division				
d. Inadequate approach procedures design.		ASR Division				
4. Develop and implement further SEIs to mitigate the risk of the identified contributing factors, if any, for RE.	Continuous process	ASR /FSR Divisions	Industry Partners		High	Occurrence reporting (MOR/VOR)
						Surveillance activities.

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	5.	Conduct continuous evaluations of	Continuous	ASR /	/FSR	Industry	High	Surveillance
		the performance of the SEI.	process	Division	ıs	Partners		activities.
								Safety
								reporting
								(MOR/VOR)

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HRC 5 : Runway Incursion (RI)

Goal 1: Achieve a continuous reduction of operational safety risks

Target:

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents
- 1.5. No RI occurrences.

Safety enhancement initiative	Action	ement	Timeline	Responsi ble entity	Stakeholders	Metrics/Indicato rs	Priority	Monitoring Activity
GASP OPS SEI on RI (State) - Mitigate contributing factors to the risk of RI accidents and incidents.	Implement the following RI safety actions: Ensure the establishment and implementation of a State runway safety programme (RSP) and runway safety teams (RST)	(State) - e uting to the of RI ts and	Implemented	ASR Division	Industry Partners (Air Operator, Aerodrome Operator, ANSP)	Number of RI occurrences per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance activities Monitoring of
meidents.	b. Promote the establishment of policy, procedures and training that supports situational awareness for controllers, pilots and airside vehicle drivers	_	Implemented	FSR and ASR Divisions				relevant SPTs/SPIs of service providers / operators.
	c. Ensure effective use of suitable technologies to assist the improvement of situational awareness, such as improved resolution Airport Moving Maps (AMM), Electronic Flight Bags (EFBs), Enhanced Vision		Implemented stop bars and Wig-Wag lights	FSR and ASR Divisions				

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				CITIE	11 1 11 11 11 11 11 11 11 11 11 11 11 1	01111 0	DICI DI III
	Systems (EVS) and Head-Up Displays (HUD), Advanced- Surface Movement Guidance and Control Systems (ASMGCS), stop bars, and runway incursion warning systems (ARIWS).						
	Certify aerodrome in accordance with ICAO Annex 14, Volume I as well as Doc 9981, PANS- Aerodrome	Implemented	ASR Division	ANSP			
	Ensure the use of standard phraseologies in accordance with applicable State regulations and ICAO provisions (e.g. Doc 9432, Manual of Radiotelephony).	Implemented	FSR & ASR Divisions		Percentage of non-compliance to standard phraseology (in aerodrome control for issuing conditional clearance/ taxi/ crossing runway/ vacating etc.)		Random checks on schedule inspections
	Ensure the identification and publication in the aeronautical information publication (AIP) of hot spots at aerodromes	Implemented	ASR Division		racanag coci,		
	Ensure that suitable strategies to remove hazards or mitigate risks associated with identified hot spots are developed and executed.	Implemented	FSR and ASR Divisions				

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			CIVIL	11 1 11 11 11 11 11 11 11 11 11 11 11 1	OMITI O	I DIXI LIMINI
h. Advisory Circular — Runway Incursion (RI) Prevention and Pilot Training.	2024	FSR Divisions				
2. Validate the effectiveness of the SEIs through the analysis of MORs, VORs and accident/incident investigations (apply safety management methodologies)	Continuous process	FSR and ASR Division	Industry Partners	Number of RI occurrences per 10,000 take offs and landings.	High	Safety reporting (MOR/VOR) Surveillance activities
3. Identify additional contributing factors:		FSR Division & ASR	Industry Partners	Number of RI occurrences per 10,000 take offs	High	Occurrence reporting (MOR/VOR)
a. Operations in low visibility conditions	Implemented	Division		and landings.		Surveillance activities
b. Complex or inadequate aerodrome design	Implemented					
c. Conditional clearances						
d. Simultaneous use of intersecting runway	Implemented					
e. Phraseology use (e.g. non- standard vs. standard, call-sign confusion)	Implemented					
f. Concurrent use of more than one language for ATC communications	Implemented					
g. English language competence despite the introduction by ICAO	Implemented					

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of a system of validating competence in aviation English. h. Inadequate manoeuvring area driver training and assessment programme.						
4. Develop and implement further SEIs to mitigate the risk of the identified contributing factors, if any, for RI	process	FSR/AS R Divisions	Industry Partners	Number of RI occurrences per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance activities
5. Conduct continuous evaluations of the performance of the SEIs	Continuous process	FSR/AS R Divisions	Industry Partners	Number of RI occurrence per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance activities

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HRC 6: Abnormal Runway Contact (ARC)

Goal 1: Achieve a continuous reduction of operational safety risks

Target:

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents
- 1.5. No RI occurrences.
- 1.6. No RE occurrences
- 1.7. No ARC occurrences

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
NASP OPS SEI on ARC (State)- Mitigate contributing factors to the risk of ARC accidents and incidents	Implement the following ARC safety actions: Promote the establishment of policy and training on rejected landings, go-arounds, crosswind and tailwind landings (up to the maximum manufacturer-demonstrated winds).	Implemented	FSR Division	Industry Partners (Air Operator, Aerodrome Operator, ANSP)	Number of hard landing per 5000 landings. Number of bounce landing per 5,000 landings. Number of tail	High	Occurrence reporting (MOR/VOR) Surveillance activities. Monitoring of relevant SPTs/SPIs of service
	b. Ensure effective and timely reporting of meteorological and aerodrome conditions (e.g. runway surface condition in accordance to the ICAO global reporting format in Annex 14, Volume I, braking action and revised declared distances)	Implemented	ASR Division		strikes per 10,000 take offs and landings Engine pod strikes per 5000 landings		providers / operators.

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			•		,		
	Tool Guidance material on Unstabilized Approach Guidance material and training program for runway pavement, maintenance and operations from aerodrome operator's perspective.	Implemented	FSR Division ASR Division		Number ARC related incidents during SNOWTAM activation per year Number of ARC related incidents during maintenance planning level of runway friction per year		
2.	Validate the effectiveness of the SEIs through the analysis of MORs, VORs and accident/incident investigations (apply safety management methodologies)	Continuous process	FSR/ASR Divisions	Industry Partners		High	Occurrence reporting (MOR/VOR) Surveillance activities
a.	Identify additional contributing factors: Ineffective SOPs Failure to adhere to the appropriate SOPs Long/floated/bounced/firm/off-centre/crabbed landing Inadequate approach procedures design	2025 2025 Implemented 2025	FSR Division FSR Division FSR Division ASR /FSR Divisions	Industry Partners		High	Occurrence Reporting (MOR/VOR) Surveillance activities

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	4.	Develop and implement further	Continuous	ASR/FSR	Industry	High	Surveillance
		SEIs to mitigate the risk of the	process	Divisions	Partners		activities
		identified contributing factors,					
		if any.					Occurrence
							reporting
							(MOR/VOR)
	5.	Conduct continuous	Continuous	ASR/FSR	Industry	High	Surveillance
		evaluations of the performance	process	Divisions	Partners		activities
		of the SEIs					
							Occurrences
							reporting
							(MOR/VOR)

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HRC 7: Wildlife Strike (WS) with damage to aircraft

Goal 1: Achieve a continuous reduction of operational safety risks Target

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents
- 1.5. No RI occurrences.

Safety enhancement initiative	Ac	ction	Timeline	Responsibl e entity	Stakeholders	Metrics/Indica tors	Priority	Monitoring Activity
NASP OPS SEI on WS (State)- Mitigate contributing factors to the risk of WS accidents and incidents	1. a.	Implement the following WS safety actions: Observe bird activities and bird strikes at the airports and promote collecting, reporting, recording and analysis of data through various means.	Implemented	ASR Division	Industry Partners (Air operators, Aerodrome Operator)	Number of WS with damage to aircraft parts per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance of Aerodrome Operator
	b.	Ensure the better management of vegetation and land use at the airports.	Implemented	ASR Division				Monitoring of relevant SPTs/SPIs of service
	c.	Ensure the implementation of effective bird distracting mechanisms at the airports.	Implemented	ASR Division				providers / operators as per SMS by AASL.
	d.	Ensure the implementation of Off-airport bird management activities in collaboration with	2025	ASR Division				

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local communities and other government agencies through National Airport Bird Control and Reduction Committee. e. Encourage the use of environmentally friendly chemical bird repellent techniques at airports apart from the existing audio and visual repellent techniques.	2025	ASR Division				
2. Validate the effectiveness of the SEI through the analysis of MORs, VORs and accident/incident investigations (apply safety management methodologies).	Continuous process	ASR Division	Industry Partners	Number of WS with damage to aircraft parts per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance of Aerodrome Operator.
 3. Identify additional contributing factors; a. Birds inhabiting airport and surrounding areas b. Inadequate bird scaring activities c. Insufficient wildlife control programme in Aerodrome. d. Violation of regulations (/butcher/slaughter houses near of airports/within 3 km of airport). e. Lack of study on wildlife habitat management near aerodromes 	Continuous process 2025 2025	ASR Division	Industry Partners	Number of WS with damage to aircraft parts per 10,000 take offs and landings.	High	Occurrence reporting (MOR/VOR) Surveillance of Aerodrome Operator

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4.	Develop and implement further	Continuous	ASR	Industry	Number of	High	Occurrence
	SEIs to mitigate the risk of the	process	Division	Partners	WS with		reporting
	identified contributing factors, if				damage to		(MOR/VOR)
	any.				aircraft parts		
					per 10,000		Surveillance of
					take offs and		Aerodrome
					landings.		Operator.
5.	Conduct continuous evaluations	Continuous	ASR/FSR	Industry	Number of	High	Occurrence
	of the performance of the SEIs.	Process	Divisions	Partners	WS with		reporting
	•				damage to		(MOR/VOR)
					aircraft parts		
					per 10,000		Surveillance of
					take offs and		Aerodrome
					landings.		Operator.
							•

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HRC 8 : Ground occurrences resulting in damage to aircraft

Goal 1: Achieve a continuous reduction of operational safety risks Target

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents

Safety enhancement initiative	Action	Timeline	Responsibl e entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
NASP OPS SEI on Ground Occurrences (State)-Mitigate contributing factors to the risk of ground accidents and incidents	 Implement the following safety actions; Ensure timely implementation of Ground safety training programs. Ensure implementation of Ground safety awareness programs. Promote the Ground Handling personnel training on subject matters. Monitor and direct ground handling personnel for recurrent / refresher training. Encourage voluntary non punitive reporting. Strengthen the enforcement actions for 	Continuous Process	FSR Division	Industry Partners (Ground handling service providers, Self-ground handlers, Air Operators, Aerodrome Operators)	Number of aircraft collisions with GSE per year Number of GSE collision with GSE per year Number of GSE collision with facility per year Number of incident on fire on GSE per year Number of Jet blast incidents per year	High	Surveillance activities. Internal quality control programs as per SMS. Monitoring of relevant SPTs/SPIs of service providers / operators as per SMS. Occurrence reporting (MOR/VOR)
	violations.						

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g) Ensure proper maintenance						
of GSE according to the						
manufacturer's						
requirement.						
h) Ensure the implementation						
of Effective GSE						
maintenance schedule						
monitoring program.						
i) Ensure the establishment						
of Ground Safety Action						
Group. (GSAG)						
j) Monitor the timely						
dissemination of GSAG						
recommendations to						
operational staff.						
k) Ensure the strengthening						
the shift briefing in a more						
effective manner.						
1) Ensure the implementation						
of effective monitoring of						
roster patterns.						
m) Maintaining of adequate						
number of personnel.						
n) Ensure the Minimizing the						
cross utilization of						
employees.						
2. Validate the effectiveness	Continuous	FSR	Industry	Number of Ground	High	Surveillance
of the SEI through the	process	Division	Partners	occurrences per year.		activities.
analysis of MORs, VORs						
and accident/incident						Internal quality
investigations (apply safety						control
management						programs.
methodologies).						

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						Occurrence reporting (MOR/VOR)
 3. Identify additional contributing factors; a) Loss of Situational awareness of ground staff b) Violation of SOP c) Improper communication among ground staff, crew and ATC d) Lack of training e) Aging of Ground equipment 	2025	FSR Division	Industry Partners	Number of Ground occurrences per year.	High	Occurrence reporting (MOR/VOR) Surveillance activities. Internal quality control programs.
4. Develop and implement further SEIs to mitigate the risk of the identified contributing factors, if any.	Continuous process	FSR Division	Industry Partners	Number of Ground occurrences per year.	High	Occurrence reporting (MOR/VOR) Surveillance activities.
5. Conduct continuous evaluations of the performance of the SEIs.	Continuous Process	FSR Divisions	Industry Partners	Number of Ground occurrences per year.	High	Occurrence reporting (MOR/VOR) Surveillance activities.

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HRC 9: Significant system failure contributing to safety of the flight

Goal 1: Achieve a continuous reduction of operational safety risks

Target

- 1.1. No fatal accident (CAT)
- 1.2. No ground fatalities as a result of an aviation accident
- 1.3. No accident with aircraft structural damage (CAT)
- 1.4. 50% reduction of serious incidents
- 1.5. No RI occurrences.
- 1.6. No RE occurrences
- 1.7. No ARC occurrences

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
NASP OPS SEI on Significant System failure (State)- Mitigate contributing factors to the risk of	Implement the following safety actions; Ensure Implementation of Manufacturer's current Maintenance Program	Continues & ongoing Revise AMP within 90 days of issue of a revised MPD	FSR Division	CAMO	Frequency of revisions submitted for approval	High	Internal audits / CAASL audits
significant system failures which contribute to accidents and incidents	b) Ensure Implementation of Airworthiness Directives before the effective date.	Schedule the embodiment of Airworthiness Directives at the earliest opportunity based on Risk Assessment	FSR Division	CAMO Air Operator	Number of applicable AD's issued and the number embodied annually	High	Internal reporting / CAASL Audits

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	Implementation of a proportionate and effective Reliability Monitoring Program	Continuous and ongoing. For operators with a fleet > 10 or more Aircraft, the use of preventative and predictive Maintenance is obligatory	FSR Division	CAMO	Improving reliability trends	Medium	Monthly Reliability reporting shared with the CAASL
C	d) Ensure the implementation of a defined policy to manage reoccurring defects based on Risk Assessment	Immediate and ongoing	FSR Division	Air Operator CAMO	Post flight Reports / PIREPS vs rates of defect clearance	Medium	Monthly reporting via the Reliability Report (number of deferred defects) Monthly reporting of Dispensation reports
6	Ensure the Implementation of a policy that discourages the use of requests for concession and mandates a Risk Assessment with any request	Immediate and ongoing	FSR Division	Air Operator	Number of internal / external requests are continuously reduced	Medium	Internal Audits/ CAASL Audits
f	Ensure the implementation of	Immediate and ongoing.	FSR Division	Air Operator CAMO	SRB/C Meeting minutes; SAG	Very High	Hazard Reports; MOC's; RA's,

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a Safety Management System IAW IS- 70	Strong focus on Human Factors and Hazard Reporting		AMO	Meeting Reports; Hazard reports and resolutions; Safety Performance Agreement; SPI's and SPT's. Management of Change; Risk Assessments		SAG meeting minutes
g) Ensure the available Provision of adequate funds for Aircraft Maintenance regardless of Business income	Continuous and ongoing	FSR Division	Air Operator Aircraft Owner	Budget, funds on hand, annual spend	High	Monthly and Quarterly reports
h) Ensure Robust Organizational structure with an empowered Accountable Manager	Implemented	FSR Division	CAMO AMO Air Operator	Organization chart	High	Any change to be approved by the CAASL. through MOC and RA
i) Ensure implementation of proper Training and qualification in the industry	Implemented	FSR Division	Air Operators CAMO AMO	Training Sources Experience Competence assessment interview	High	Procedures Internal / external audits Hazard reports / incidents

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j) Ensure availability of adequate facilities to comply with the scope of work to be undertaken	Implemented	FSR Division	Air Operators CAMO AMO	Comparison with similar organizations	High	Initial audit for approval Continuous audit process
k) Effective audit system with an empowered Quality Assurances Post Holder	At initial approval and for any change via MOC	FSR Division	Air Operators CAMO AMO	Compliance with regulations Comparison with similar organizations	High	Initial approval audit Continuous audit process
2. Validate the effectiveness of the SEI through the analysis of MORs, VORs, accident/incident investigations and audits (apply safety management methodologies).	Continuous Process	FSR Division	Air Operators CAMO AMO	Number of hazard reports	High	Audit by the CAASL
 3. Identify additional contributing factors; a) Improper maintenance checks and inspections. 	Continuous Process	FSR Division	Air Operators CAMO AMO	Number of hazard reports	High	Audit by the CAASL

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b) Aging of the aircraft c) Inability to oversee operations due to poor training, operational procedures d) Inability to replace components timely						
4. Develop and implement further SEIs to mitigate the risk of the identified contributing factors, if any previously unknown emerge.	Continuous Process	FSR Division	Air Operators CAMO AMO	Number of hazard reports	High	Audit by the Authority

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11. APPENDIX - B - SRI LANKA ORG ROADMAP

DETAILED SEIS: STATE SAFETY OVERSIGHT CAPABILITIES

ORG Issue no.1: Establishment of effective safety oversight framework.

Goal 2: Strengthen State safety oversight capabilities based on data driven approach

Target 2.1: Sri Lanka to improve its score for the effective implementation (EI) of the critical elements (CEs) of the State's safety oversight system (with focus on priority PQs) as follows:

- \triangleright By 2025 up to 89 percent
- ➤ By 2028 up to 93 percent
- \triangleright By 2030 up to 95 percent
- Target 2.2: 100% completion of all Priority PQs self-assessment
- Target 2.3: Sri Lanka to ensure no Significant Safety Concerns (SSCs) raised under the USOAP Continuous Monitoring Approach (CMA).
- Target 2.4: 100% Safety surveillance achieved against schedule
- Target 2.5: Develop and maintain a mechanism for data collection, analysis and sharing among all stake holders by 2025.
- Target 2.6: Sri Lanka to establish an independent Accident and Incident Investigation Authority (AIIA) as required by Annex 13, by 2025.

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/ Indicators	Priority	Monitoring Activity
GASP ORG SEI 1 (State) — Consistent implementation of ICAO SARPs at the national level	of all the Regulations/Implementing Standards, and by following the CAASL rulemaking	Continues process	CAASL	Ministry of Civil Aviation	No of Regulations reviewed No of IS's reviewed No Revisions to ISs. No of amendments	High	AWP review Revised of ICAO CAPS.

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national regulations provide for clear requirements of the State and are implementable and enforceable;				to Regulations.		
2. Work at the national level to ensure no significant safety concerns as a priority.	Continuous process	CAASL	Industry partners	No of unsatisfactor y PPQs No. of SSCs	High	Continuous Surveillance of operators and
3. Address all protocol questions (PQs) of the	Continuous process			Percentage of priority PQs	TT: 1	service providers. Self-assessment
USOAP CMA 4. Establish primary aviation law and regulations, to	Implemented (CAASL 34 of			addressed. % of CCs	High	of PQs Continuous Surveillance of
empower the CAASL to conduct regulatory oversight, this includes separation of oversight functions and service provision functions	2002 and CA Act 14 of 2010)			No of ICAO State letter received for	High	operators and service providers. Self-assessment of PPQs
(CE-1 and CE-2) 5. Increase the level of	Continuous			amendments of SARPS to Annexes.		Adapting the amendments of SARPS to ICAO
compliance with ICAO SARPs and the EI of CEs at the national level (CE-1 to CE-5)	process			No of compliances to CAASL		Annexes. Updating of ICAO CMA web site.
6. Establish a process for the identification of differences with ICAO SARPs (CE-2).	Implemented			MC 2018-02.		Regular review of State letter data
7. Ensure the differences identified are notified to ICAO in timely manner.	Continuous process			differences submitted to ICAO.		base by Documents &Web Management

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					% of CCs/EFOD		Section of CAASL.
							Continuous update of CCs/EFOD - ICAO CMA.
GASP ORG SEI 2 (State) — Development of a comprehensive regulatory oversight framework	1. Establish and maintain an independent regulatory oversight authority, which includes separation of oversight functions from service provision functions where these exist within the authority (CE-3).	Implemented	CAASL	-	-	High	-
	2. Develop an effective system to promulgate technical guidance and tools, and provide safety critical information needed for technical personnel to effectively perform their safety oversight functions (CE-5).	and Inspector	CAASL		No of technical Guidance issued. No of tools provided No of check lists available		Continuous Review of ICAO Annexes, Guidance. Updating of CAASL technical guidance.
	3. Establish an effective system to attract, recruit, train and retain qualified and sufficient technical personnel to support regulatory oversight (see ORG SEI-5) (CE-3 and CE-4).	PCDS developed for			No of trained technical No of staff recruited.		Review of SORs. Review of Training requirements and Training Plans.

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GASP ORG SEI- 3 (State) — Establishment of an independent accident and incident investigation authority, consistent with	1. Establish an independent accident and incident investigation authority, as per Annex 13 requirements (CE-1 and CE-3).	2025	Ministry in charge of Civil Aviation		No of meetings held. No of drafts submitted to LD's Departments.	High Progress review meetings with the Ministry
Annex 13	2. Develop an effective system to promulgate technical guidance and tools, and provide safety critical information needed for technical personnel to effectively conduct accident and incident investigations (CE-5).	for the investigations	Ministry ir charge of Civil Aviation		No of Guidance Materials and tools issued.	Reviews and amendments according to ICAO SARPS
	3. Establish an effective system to attract, recruit, train and retain qualified and sufficient technical personnel to support accident and incident investigations (see SEI-5) (CE-3 and CE-4).	2025	Ministry in charge of Civil Aviation		No of trained technical staff recruited as investigators	Preparation of SORs Preparation of Training Plans
GASP ORG SEI- 4 (State) — Strategic allocation of resources to enable effective safety oversight	1. Confirm executive or legislative mandate to receive financial resources from government or other external sources and expend them (CE-1).	Implemented (self-financed)	CAASL	-	-	CAASL Annual Budget

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2.	Establish a process for the resource planning and allocation in alignment with a CAASL's organizational structure, which is required to conduct effective safety oversight (CE-2 and CE-3). SEI-1 and SEI-5 could be	Implemented	CAASL	-	-		CAASL Annual Work Programme, Programme - Budget and Surveillance Plan.
3.	used to identify resource requirements (CE-1 to CE-5).	Technical Assistance from ICAO	CAASL	-	No of requests made for trainings No of requests made for required	Medium	Review of Annual Training Plan Updating of training records Review of Trainings
					No of trainings obtained No of times technical expertise obtained		(planned) schedules Annual Training Plan
4.	Develop a process for assessing changing resource requirements and sustain		CAASL	ICAO-APRASG COSCAP-SA, EUSA-APP	No of trainings &	Medium	

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		necessary coordination with resource stakeholders for safety oversight improvements, as outlined in Component 1 - State Safety Oversight System (CE-1 to CE-3)				expertise received. No of inspectors certified.		
GASP ORG SEI- 5 (State) — Qualified technical personnel to support effective safety oversight		to identify and track qualifications and training of existing technical personnel (CE-4).	(IHB)	CAASL	-	No of training provided as per Training Plan.	High	Review of Annual Training Plans & Individual Training Plan as per the required trainings.
	2.	Identify the gaps in qualified technical personnel and training requirements necessary to implement the oversight mandate (CE-4).	•			Carder requirement No of Technical personnel available		Review of PCDS Review of the carder requirement calculation criteria
	3.	Establish a compensation scheme for the attraction and retention of qualified technical personnel (CE-4). Make use of RSOOs, RAIOs,	(Technical allowance)					Review of Technical allowance payment criteria
		or equivalent means, to secure qualified technical personnel to perform those functions which cannot be						

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performed by the State acting on its own (CE-4). 5. Establish human resource plans to support hiring and	Implemented			
retention of the appropriate number of qualified technical personnel required (CE-4).				
6. Implement training policies and programmes for technical personnel and verify that the type and frequency of training successfully completed (i.e. initial, recurrent, specialized and on-the-job training) are sufficient to acquire/maintain the required qualifications and level of competence corresponding to the assigned duties and responsibilities of technical personnel (CE-4).				
7. Develop a process for assessing changing needs for qualified technical personnel requirements and develop procedures to update hiring, retention and training of personnel needs, in coordination with SEI-4, item 2 above (CE-4).				

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	8.	Ensure that qualified PANS-OPS and CNS inspectors are employed in sufficient number.	The process has been started					
GASP ORG SEI- 6 (State) — Strategic collaboration with key aviation stakeholders to enhance safety in a coordinated manner	2.	Based on the identified hazards and safety deficiencies (Implement), establish a mechanism to identify collaborators and develop an action plan for the resolution of those deficiencies (CE-1 to CE-6). Use a regional safety oversight mechanism, or the services of another competent organization.	Implemented and continuous process.	CAASL	Industry Partners COSCAP-SA, Industry Partner	Number of hazards /safety deficiencies identified. No of findings raised No of safety deficiencies resolved.	High	Surveillance and Audits Investigation process Identifying the GAPs in national safety oversight framework
						No. of safety oversight activities from regional bodies or/and States.		Review of meeting out comes
	3.	Establish a process via RASG for a mentoring/collaboration system, including providing State/industry assistance as well as sharing of best practices and internal follow-up actions (CE-1 to CE-5, emphasis on CE-3).	Continuous process	CAASL	RASG ICAO	No of meetings participated	Medium	Reviewing the GAPs in the CAASL Training Plan implementation. Review of ICAO technical guidance.

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4	4. Collaborate with RASG and/or RSOO, other States, ICAO, industry joint programmes and/or technical school partnerships to attract, recruit and train qualified and sufficient technical personnel and develop a strategy for their retention (CE-4).	Implemented and Continuous Process	CAASL	APAC - FPP RASG ICAO	No of trainings provided	Medium	Review of Agreements with COSCAP-SA/ APAC-FPP
5	5. Establish and implement a process for the development and promulgation of technical guidance, tools and the provision of safety critical information, in collaboration with other States, RSOO, ICAO and/or other stakeholders, with the understanding that these materials need to be tailored to State's national regulations and operational environments (CE-5).	Continuous Process	CAASL	ICAO EU	No of Guidance materials issued	Medium	Review the requirements of issuing new guidance /tools based on amendments to ICAO SARPS
6	5. While working to improve safety oversight, work with RASG and/or RSOO to address high risk categories of occurrences.	Continuous Process	CAASL	RASG RSOO	No of participation to RASP & APANPIRG meetings. Safety Data sharing to ICAO/APAC	High	Response to safety data surveillance.

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GASP ORG SEI-	1.	1	Continuous	CAASL	Industry partner	No of CAPs	High	PQ self
7 (State) —		action plan items.	Process			submitted.		assessments on
Provision of the								each audit area
primary source of	2.	Complete and submit the				No of PQs		
safety		self-assessment checklist				completed		Continuous
information to		based on USOAP CMA				•		updates on ICAO
ICAO by		priority PQs.				SAAQ		CMA
completing,						updated		Internal audits
submitting and	3.	Complete and submit the				1		
updating all		State aviation activity				No of CCs		
relevant		questionnaire.				completed		
documents and		1				r		
records	4.	Complete and submit the				No of		% of EI Score
1000100		compliance checklists on				revision/editi		70 01 21 20010
		electronic filing of				ons required		
		differences system.				for the		
		differences system.				existing ISs		
	5.	Update documents and				& CAASL		
	٠.	records, as required, in a				documents		
		timely manner.				based on		
		timery manner.				ICAO		
						Annexes and		
						guidance		
						materials		
SEI-8 —	1.	Work at the national level to	As and when	CAASL	Industry	No of SSCs	High	Developing and
Consistent	1.	address significant safety	required	CHISL	Partners	raised	Iligii	Reviewing of
implementation		concerns (if any) as a	required		1 artifers	Taised		CAPs to resolve
of ICAO SARPs		priority as a						SSCs
at the national		priority						SSCS
level	2.	Increase the level of	Continuous	CAASL	Industry	EI score	High	PQ self
level	۷.	compliance with ICAO		CAASL	Partners	El scole	піgіі	assessment for
		SARPs and the EI of CEs at	process		Partners			
								CE-6 to CE 8
		the national level (all CEs,						
		emphasis on CE-6 to CE-8)						

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GASP ORG SEI-	1.	Implement licencing,	Implemented	CAASL	Industry partners		High	Internal audits
9 (State)		certification, authorization	and in		7 1	licences/	C	
Continued		and approval processes (CE-	progress for			certification/a		surveillance
implementation		8).	ASPC			uthorizations		activities
of and						issued		
compliance with								Reviewing the
ICAO SARPs at								existing
the national level.								procedures
	2.		Implemented	CAASL	Industry	No of safety	High	Findings raised
		oversight and enforcement			Partners	concerns		during
		processes (CE-7 and CE-8).				raised during		investigations
						surveillance		and inquiries.
						activities and		
						during		E 11
						accident and		Follow up actions
						incident		on safety recommendations
						investigations		issued during
						•		Investigations
						No of		and inquiries.
						inquiries held		and inquiries.
						to resolve		
						safety		
						concerns per		
						year		
						3		Findings raised
	3.	Establish a system to resolve	Implemented	CAASL	Industry	No of safety	High	during
		safety concerns identified via	•		Partners	recommendat		investigations
		accident and incident	continuous			ions issues.		and inquiries.
		investigation, surveillance	reviewed by			No of		
		activities, safety reports and	AAIB when			findings		Follow up actions
		other means (CE-8).	implemented			issued		on safety
			in 2025					recommendations

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				CIVIE	WINTION NOTHORITI O	
					No of CAPs –	issued to stake
					accepted	holders during
					No of CAPs –	safety audits,
					not accepted.	Investigations
						and inquiries.
SEI-10 — Strategic allocation of resources to enable effective safety oversight	Use SEI-1 and SEI-5 to identify resource requirements (CE-6 to CE-8) Leverage regional groups such as the RASG to identify additional resources.	Continuous process	CAASL	Industry Partners	No of training provided to CAASL inspectors as per Training Plan. No of CAASL inspectors required No of	Annual cadre requirement assessment. Updates of PCDS of CAASL Inspectors
					No of CAASL inspectors available No of Technical personnel available (Operators and Service Providers) in the Industry	

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SEI-11 —	1. Based on the identified	Implemented	CAASL	Industry	No of	Coordination
Strategic	hazards and safety	and on going	AAIB	Partners	Findings	meetings with the
collaboration	deficiencies, establish a	process.			raised	Service Providers
with key aviation	mechanism to identify key	1				and Operators.
stakeholders to	aviation stakeholders and	Inspection			No of CAPs	•
enhance safety in	develop an action plan for the	findings and			received	
a coordinated	resolution of those safety	Safety				
manner	issues (CE-6 to CE-8)	recommendati			No of CAPS	
		ons follow up			accepted	
		process				
					No of	
		A new process			Coordination	
		will be			meetings	
		implemented			conducted.	
		with				
		establishment				
		of AAIB.				
	2. Use technical guidance, tools				No of check	
	and safety-critical	Implemented	CAASL	Industry	lists available	Completing the
	information, developed in	and		Partners		CAASL –MC-
	collaboration with other	Continuous			No of	2018-02 to
	States, RSOO, ICAO and/or	process			Guidance	address the
	other stakeholders, to enable				Manuals	amendments to
	technical personnel to				available for	ICAO
	perform their safety oversight				safety	SARPs/PANS
	functions effectively (CE-6				oversight	
	to CE-8)				functions.	
					N. C	
					No of	
					Revisions to	
					the check list	

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				CIVIL A	VIATION AUTE	IOKITY OF	SKI LANKA
	3. While working to improve safety oversight, continue to work with RASG and/or RSOO to address national high-risk categories of occurrences	Continuous process	CAASL	Industry Partners	No of Revisions to the guidance Manuals No. of updates to NASP No of updates to SMM/SMSM 's of service providers/ Operators		Safety Data analysis SMS Surveillance
GASP ORG SEI- 12 (State)	Update USOAP corrective action plan items.	Continuous process	CAASL	Industry Partners	No of CAPs submitted.	High	PQ- self assessments.
Continued provision of the primary source of safety information to	2. Update and submit the self-assessment checklist based on USOAP CMA priority PQs.	Continuous			No of PQs completed SAAQ updated.		Updates on CAPs % of EI score Internal audits
ICAO by updating all relevant documents and	3. Update and submit the State Aviation Activity Questionnaire.	Continuous process			No of CCs completed		
records as progress is made.	4. Update and submit the compliance checklist (CCs) on the electronic filing of differences (EFOD) system.	Continuous process					

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ORG Issue No. 2: Effective SSP implementation

Goal 3: Implement effective SMS and SSP

Target 3.1: Sri Lanka to implement the foundation of SSP by 2023.

Target 3.2: Sri Lanka to attain 100% SSP PQs implementation at "present" level by 2025.

Target 3.3: Sri Lanka to implement an effective SSP at maturity level "present & effective" by 2028.

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
GASP ORG SEI- 13 (State) — Start of SSP implementation	1. Secure State-level commitment to improve safety.	Implemented	CAASL	Industry Partners	Completion level of SSP implementation Level of SSP self-	High	ICAO ISTARs
at the national level	2. Conduct initial SSP gap analysis (checklist) then the detailed SSP self –assessment.	Implemented			Assessment		SSP GAP analysis
	3. Establish an SSP implementation team.	Implemented			No of meetings with SSP implementation team		SSP Implementation Plan
	4. Develop an implementation plan for the SSP.	2023			No of amendments to SSPPPM		Review and updates on SSP Policy and
	5. Issue SMS regulations for service providers and verify SMS implementation.	Implemented			No of amendments to the SMS Regulations and IS 70		Procedures Manual (SSPPPM) Review and update on

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					CI	IL AVIATION AUTHO	JKITT OF SK	LANKA
	6.	Identify and share safety management best practices.	Continuous process					Implementing Standard (IS) and Regulations on SMS
GASP ORG SEI- 14 (State) — Strategic allocation of resources to start SSP implementation	1.	Establish a process for planning and allocation of resources to enable SSP implementation and identify areas where resources are needed.	Implemented	CAASL	Industry partners	Level of SSP Implementation	High	SSP GAP analysis Review and updates to SSP Implementation Plan
	2.	Obtain resources from national and appropriate authorities' leadership and stakeholders within the State to support SSP implementation.	Implemented CAASL Funded					ICAO ISTARs
	3.	Work with the ICAO Regional Office to make use of available means (e.g. Technical Cooperation Bureau) to acquire assistance needed for SSP implementation.	Continuous Process					
	4.	Work with RSOO, other States and other organizations, as appropriate to train qualified technical	Continuous process with EU-SA-APP, COSCAP-SA			No of SSP trainings received		

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				1		VIE AVIATION ACTIO	1	
		personnel to fulfil their	and ICAO -			No of expert		
		duties and	APAC			assistance received		
		responsibilities				on SSP		
		regarding SSP				implementation		
		implementation.				1		
GASP ORG SEI-	1.		Continuous	CAASL	Industry	Number of	High	Monitoring and
15 (State) —	1.	collaboration/support	process	CHASE	Partners	collaborator	Ingn	evaluating
Strategic		is needed as part of the	process		1 artifers	identified		activities through
collaboration		•			Dagional	identified		SSP
		<u>*</u>			Regional	NT 1 C 4' '4'		
with key aviation		plan (see SEI-14).			Organizations	Number of activities		Coordination
stakeholders to	_					collaborated with		Meetings.
start SSP	2.	•				identified		
implementation.		collaborators from key	Implemented -			collaborators		SSP GAP
		aviation stakeholders,	Collaborates					Analysis
		including other States	are within the					
		that are implementing	State.					ICAO ISTARs
		or have implemented a						
		SSP.						
	3.	Develop an action plan	2023					
] .	to address the elements	2023					
		identified as missing or						
		deficient during the						
		SSP gap analysis (see						
		SEI-13- item 2).						
	4.	1	Continuous			No of RASG		
		RASG for a mentoring	process with			meetings attended		
		system, including	RASG			No of trainings		
		providing assistance to				received		
		States/industry, as well						
		as sharing of best						
		practices to support						
		SSP implementation.						
		ssi impiementation.						

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5. Develop a p	ining on and continuous		No of SSP trainings received.	Updating of individual SSP
provide trai SSP to relevant collaboration RSOO and/ States (e.g. recurrent advanced).	with ICAO and EU- for other SA APP.		received.	Review of Annual Training Plan
6. Establish implement a for sharing guidance, to safety-critical information in SSP (e.g. circulars, instructions, performance indicators), collaboration other States, RSOO, ICAG other stakehood	technical cools and l related to advisory staff safety in with , RASG, O and/or		No of Occurrence reports shared with relevant States No. of Investigation Reports shared with ICAO and other States per year. No. of Safety Bulletin issued.	Continuous safety data analysis and safety reports.

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GASP ORG SEI- 16 (State) — Strategic collaboration with key aviation stakeholders to complete SSP implementation	2.	collaborators (identified in SEI-15) to execute the action plan for implementation. Work with key aviation stakeholders on establishing and updating SSP elements	Continuous process Continuous process Continuous Process	CAASL	Industry Partners Regional Organizations	Number of activities collaborated with identified collaborators Level of SSP implementation Number of best practices shared with other states.	High	Monitoring and evaluating collaborative activities through Meetings. ICAO ISTARs
GASP ORG SEI- 17 (State) — Continued availability of safety data and safety information to support safety management activities at the national level(step 1)	1.	Establish a legal framework related to the protection of safety data, safety information and other related sources in accordance with Appendix 3 of ICAO Annex 19.	Implemented and will be completed by 2025	CAASL and AAIB after 2025	Industry Partners	Number of mandatory and voluntary reports received Number of Risk Assessment conducted. Regulations on Data Protection	Medium	Effectiveness of reporting systems Data analysis and risk assessments

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				 ,	
2.	Establish a State	Implemented			
	mandatory occurrence				
	reporting system.				
	1 2 3				
3.	Establish safety data	Continuously			
	collection and	being			
	processing systems	implemented.			
	(SDCPS) to capture,	impremented.			
	store, aggregate, and				
	enable the analysis of				
	safety data and safety				
	information to support				
	their safety				
	performance				
	•				
	management				
	activities.(which				
	includes a system to				
	track, monitor and				
	record the corrective				
	actions taken by the air				
	operators in resolving				
	identified deficiencies;				
	and a surveillance				
	programme for				
	designated examiners,				
	with clear guidance on				
	the frequency and				
	activities to be				
	conducted by CAASL				
	inspectors.).				
4.	Establish and	2024			
	implement a system to				
	conduct risk-based				

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inspections of all entities, other than air operators, involved in the transport of dangerous goods by air, including the determination of inspection frequencies as well as random inspections; and 5. Implement procedures to take appropriate actions in case of violation in the area of dangerous goods, including a system to track identified deficiencies.	2024				
6. Establish and maintain a process to identify hazards from collected safety data.	Continuous Process				
7. Establish and utilize a process to ensure the assessment of safety risks associated with identified hazards.	Continuous Process				
8. Establish a State confidential voluntary	Implemented				

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		safety reporting system providing data to the safety database (see SEI-17C)						
GASP ORG SEI- 18 (State) Continued availability of safety data and safety information to support safety management activities at the national level (step 2)	3.	performance indicators using the established safety risk management process. Establish the safety objectives to be achieved through the SSP	Implemented Implemented Implemented	CAASL	Industry Partners	Number of mandatory and voluntary reports received. Number of SPIs and SPTs defined on each domain. Number of risk assessments conducted Number of ALOSP defined	High	Effectiveness of CAASL reporting systems Quality of SPIs and SPTs defined Contribution of SPIs to GASP and AP RASP. SMS Audits
	_	and safety performance targets using the established safety risk management process	Continuous					
	5.	Ensure the establishment of	Continuous process					

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_				01	THE OF SEC	
		mandatory safety reporting systems by service providers.				
	6.	Encourage establishment of voluntary safety reporting systems as part of service providers' SMS.	Continuous process			
	7.	Promote safety awareness and the two-way communication, sharing and exchange of safety relevant information within the State's aviation organizations and encourage sharing of safety information with industry within the State.	Continuous process			
	8.	Contribute information on operational safety risks and SSP safety performance indicators and emerging issues to the RASP.	Continuous process			

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Issue no. 4: Advance data analysis & risk modelling

Goal 4: Increase collaboration at the regional level

Target 4.1: Sri Lanka to achieve Goal 2 and 3, may use a regional safety oversight mechanism or other safety oversight organizations' ICAO recognized functions in seeking assistance to strengthen the safety oversight capabilities.

Target 4.2: Sri Lanka to share information on operational safety risks, including SSP Safety Performance Indicators (SPIs), and emerging issues to Asia Pacific Regional Aviation Safety Group (AP- RASG) on request.

Safety	Action	Timeline	Responsible	Stakeholders	Metrics/Indicators	Priority	Monitoring
enhancement			entity				Activity
initiative							
GASP ORG	j	2025	CAASL	Industry	Number of	High	Review of state
SEI-19 (State)	support safety intelligence			Partners	qualified technical		risk modelling
Acquisition	collection and processing,				personnel for data		capabilities
of resources to	advanced data analysis, risk			Regional	analysis, risk		
increase the	modelling and information			Organizations	modelling.		
proactive use of	sharing capabilities.						
risk modelling					No of advance data		
capabilities					analysis and risk		
		2025			modelling		
	retain qualified technical				conducted		
	personnel to specialize in risk						
	modelling.				No of technical		
					staff recruited		
					/trained on risk		
	J	Process			modelling		
	trained to perform safety						
	oversight				No of training on		
					data analysis, risk		
					modelling received		
					by CAASL		
					Inspectors		

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	1	1			AVIATION AUTHORITT OF SK	
GASP ORG	•	2025	CAASL	Industry	Number of areas	SMS Audits
SEI-20 (State)	collaboration/support is			Partners	identified for	
— Strategic	needed to ensure that				collaboration.	Review of safety
collaboration	stakeholders understand and					Data /analysis
with key	implement safety culture				No of Mandatory	-
aviation	concepts to fully embrace an				and Voluntary	
stakeholders to	open, just culture and non-				Reports received	
support the	punitive safety reporting.					
proactive use of						
risk modelling	2. Establish a process via RASG	2025			Number of	
capabilities.	and/or RSOO (or other				assistance received	
	regional bodies) for a				and best practices	
	mentoring system, including				shared	
	providing assistance to					
	States/industry, as well as the					
	sharing of best practices, to					
	support safety culture					
	development and the proactive					
	use of risk modelling.					
	C					
	3. Foster and participate in	Continuous				
	public-private partnerships	process				
	similar to the	•				
	commercial/general aviation					
	safety teams' concept to					
	identify and implement system					
	safety enhancements.					
	-				No of annual safety	
	4. Collaborate with national and				meetings held	
	industry stakeholders to	Implemented				
	establish a mechanism for the	and			No of Stakeholder	
	regular sharing and exchange	Continuous			meetings per year	
	of safety information,	process				
	analyses, safety risk	•				
	discoveries/lessons learned					
	and best practices within a					
	Goding Annuali D		D	D 25	21 D 22	

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	confidential and non-punitive environment.					
GASP ORG SEI-21 (State) Advancement of safety risk management at the national level Statistics	connectivity and integration among the State's aviation safety databases, including the mandatory occurrences reporting system, voluntary safety reporting systems, safety audit reports and aviation system statistics (traffic counts, weather information, EI scores, etc.).	2025 CAA	3	Number occurrence information shared	High	Surveillance activities including SMS Audits
	capabilities to support monitoring system safety issues and accident/incident prevention.					
		Continuous process				

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Issue No. 5: Effective SMS implementation

Goal 5: Expand the use of industry programmes and safety information sharing networks by service providers

Target 5.1: Establish a national safety information sharing networks by 2025.

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indic ators	Priority	Monitoring Activity
GASP SMS SEI-5 : Improvement of industry compliance with applicable SMS requirements	1. Ensure implementation of a safety management system (SMS) commensurate to the size and complexity of the service provider, as required by national regulations and Annex 19.	Continuous Process	CAASL	Industry Partners	Level of SMS Implementati on.	High	SMS Audit SMSM review SSPIA (when available)
	2. Ensure utilization of available guidance material to assist with SMS implementation	Continuous Process			No of guidance materials available		

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GASP SMS SEI-6	1.	Ensure working in	Continuous	CAASL	Industry	No of areas	High	SMS Audit
: Resources for		collaboration with the State	Process		Partners	identified for	8	
service providers		and industry associations to				support		
to effectively		advance SMS				o o p p o o o		
implement SMS		implementation and						
mpromon 21/12		identify expectations that						
		cannot be efficiently						
		resourced.						
	2.	Ensure identification of	Continuous			No of areas		SMSM approval
		areas where resources are	Process			identified		process
		needed as part of the SMS				having lack of		
		implementation plan				resources		
		developed following the						
		SMS gap analysis.						
	3.	Ensure establishing a				Plan for		SMSM approval
		process for resource	Process			resource		process
		planning and allocation to				allocation		
		enable SMS						
		implementation, including						
		resources which may be						
		obtained from industry						
		organizations						
	,	T 1	a :			Safety policy		C) (C) (
	4.	Ensure obtaining	Continuous			T 1 C		SMSM approval
		commitment from the	Process			Level of		process
		accountable executive				Commitment		
		within the service provider				from		
		for the necessary resources to enable SMS				accountable		
						manager		
		implementation.						

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GASP SMS SEI-7 — Strategic collaboration with		action plan of SSP implementation through	Continuous process	CAASL	Industry Partners	information shared with	High	Review of SMS implementation plans
key aviation stakeholders to complete SSP implementation.		sharing and supporting harmonization of SMS within industry.				the State Level of SMS implementati		SMS Audits
•	2.	continuous improvement of SSP.				on		
GASP SMS SEI-8 — Establishment of safety risk management at the service provider level		mandatory safety reporting systems. Ensure providing information from the service provider to the State mandatory safety reporting system, as required.	Continuous Process	CAASL	Industry Partners	Level of establishment of internal occurrence reporting system No of MOR received. No of SPIs and SPTs defined	High	Review of SMS implementation plans SMS Audits Monitoring of SPTs and SPIs
	4.	Ensure establishment of voluntary and confidential hazard/occurrence reporting systems as part of the SMS.				No of VORs received.		

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nt Skies for all		CIVIL AVIATION AUTHORITY OF SRI LANKA	
	5. Ensure establishment and	No .	
	maintenance of a safety	Techniques	
	database for technical	used for	
	personnel to monitor	safety	
	system safety issues within	performance	
	the service provider.	measurement.	
	6. Ensure establishment and	No of risk	
	utilization of a safety risk	assessments	
	management process.	conducted	
	7. Ensure development of		
	safety performance		
	measurement		
	methodologies, aligned		
	with harmonized safety		
	metrics within industry, via		
	the established safety risk		
	management process.		
	8. Ensure development of		
	safety performance		
	indicators and associated		
	targets/alert settings, via the		
	established safety risk		
	management process.		
	O Engage the way of		
	9. Encourage the use of globally harmonized		
	globally harmonized metrics for the development		
	and monitoring of safety		
	performance indicators, as		
	part of the service		
	providers' SMS.		
	providers sivis.		

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					VIE 71 V 1711101 V 7		_ DIG 2011 (1211
	10. Encourage sharing and use of information from within industry to identify hazards and mitigate safety risks.						
GASP SMS SEI- 10 — Allocation of industry resources to support continuous improvement of SSP and SMS	 Ensure competent technical personnel are allocated, at the service provider level, to support the requirements of the SSP infrastructure. Ensure providing safety analysis results from service providers to support the SSP. 	Continuous Process	CAASL	Industry Partners	Level of competence of Safety Manager Competency level of staff allocated for SMS implementati on.	High	SMS Audits Post holder interviews
	 3. Ensure that; a) the service provider for air traffic service (ATS) develop and implement a training programme for its ATS staff, which includes refresher training; b) contingency plans have been developed and published for implementation in the event of disruption of ATS or related supporting services; c) An effective surveillance over the PANS-OPS, CNS, 	On going			ATS trainings/refre sher trainings provided. No. of updates to the ATS Training Plan. No. of meetings/ reviews on Contingency Plan.		

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						VIL 11 V 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TO THIOMITT O	I DICI DI II III I
		MET and SAR service						
		providers is conducted.						
GASP SMS SEI- 11 — Strategic collaboration with	1.	Ensure working with industry stakeholders to leverage best practices with	Continuous Process	CAASL	Industry Partners	No of stakeholders identified	High	SMS Audits
key aviation stakeholders to		safety information analysis.				No of safety analysis		
support the proactive use of	2.	Ensure sharing of safety risk identification with	Continuous			conducted		
risk modelling capabilities		stakeholders for mitigation and monitoring strategies.	Process					
	3.	Ensure active participation with State and	2025					
		with State and organizations engaged in risk modelling.						
GASP SMS SEI-	1.	Ensure that a legal	2025 after	CAASL	Industry	No of IS	High	SMS Audits
12 —		framework related to the	the		Partners	issued on		
Advancement of		protection of safety data,	establishme			protection of		SMSM review
safety risk		safety information and	nt of AAIB			safety data.		and acceptance
management at		other related sources is						process
the service provider level		implemented and effective.						
r	2.	Ensure developing risk	2025					
		modelling capabilities to						
		support the monitoring of						
		system safety issues and accident/incident						
		prevention.						
	3.	Ensure monitoring safety						
		information exchange	2025					
		networks for continuous						
		improvements.						

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Issue no. 6: Appropriate development and utilization of air navigation and airport core infrastructure to support safe operations

Goal 6: Ensure Sri Lanka has the appropriate infrastructure (physical and institutional) to support safe operations

Target 6.1: Sri Lanka to implement the Air Navigation Plan and airport infrastructure development by 2025.

Safety enhancement initiative	Action	Timeline	Responsible entity	Stakeholders	Metrics/Indicators	Priority	Monitoring Activity
SEI - Implement the air navigation and airport core infrastructure and improve the EI percentage	1. Implement safety-related initiatives from the APAC Seamless ANS Plan in a timely manner, as applicable.		CAASL	Industry Partners	Level of Implementation of Safety related initiatives from the latest APAC Seamless ANS Plan.	High	Implementation of elements of the APAC Seamless ANS Plan

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