



**Safety Management System (SMS) Implementation
Workshop for Air Navigation
Service Providers (ANSPs)**

Mexico City, Mexico, 17 – 19 July 2018

SMS Surveillance

For Air Navigation Service Providers (ANSPs)



**Safety Management System (SMS) Implementation
Workshop for Air Navigation
Service Providers (ANSPs)**

Content

State Safety Management Program(PEGSO)

Dominican Republic Air Navigation Service
Provider SMS Acceptance

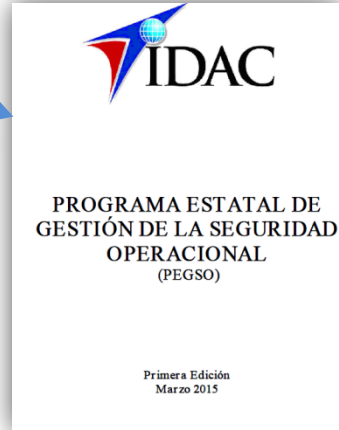


State Safety Management Program(PEGSO)



Accountable Executive

State Safety Management Program Manual (PEGSO)



Safety Review Committee (CRS)

- General Director
- General Sub Director
- Planning and Development Director
- Flight Standards Director
- Safety Surveillance Director

State Safety Policy

DECLARACIÓN DE POLÍTICA DE SEGURIDAD OPERACIONAL DE LA REPÚBLICA DOMINICANA

El Instituto Dominicano de Aviación Civil (IDAC), es la Autoridad de Aviación Civil a cargo de la supervisión y control de la aviación civil en la República Dominicana, responsable de ejercer las funciones que le son otorgadas por la Ley de Aviación Civil No. 491-06.

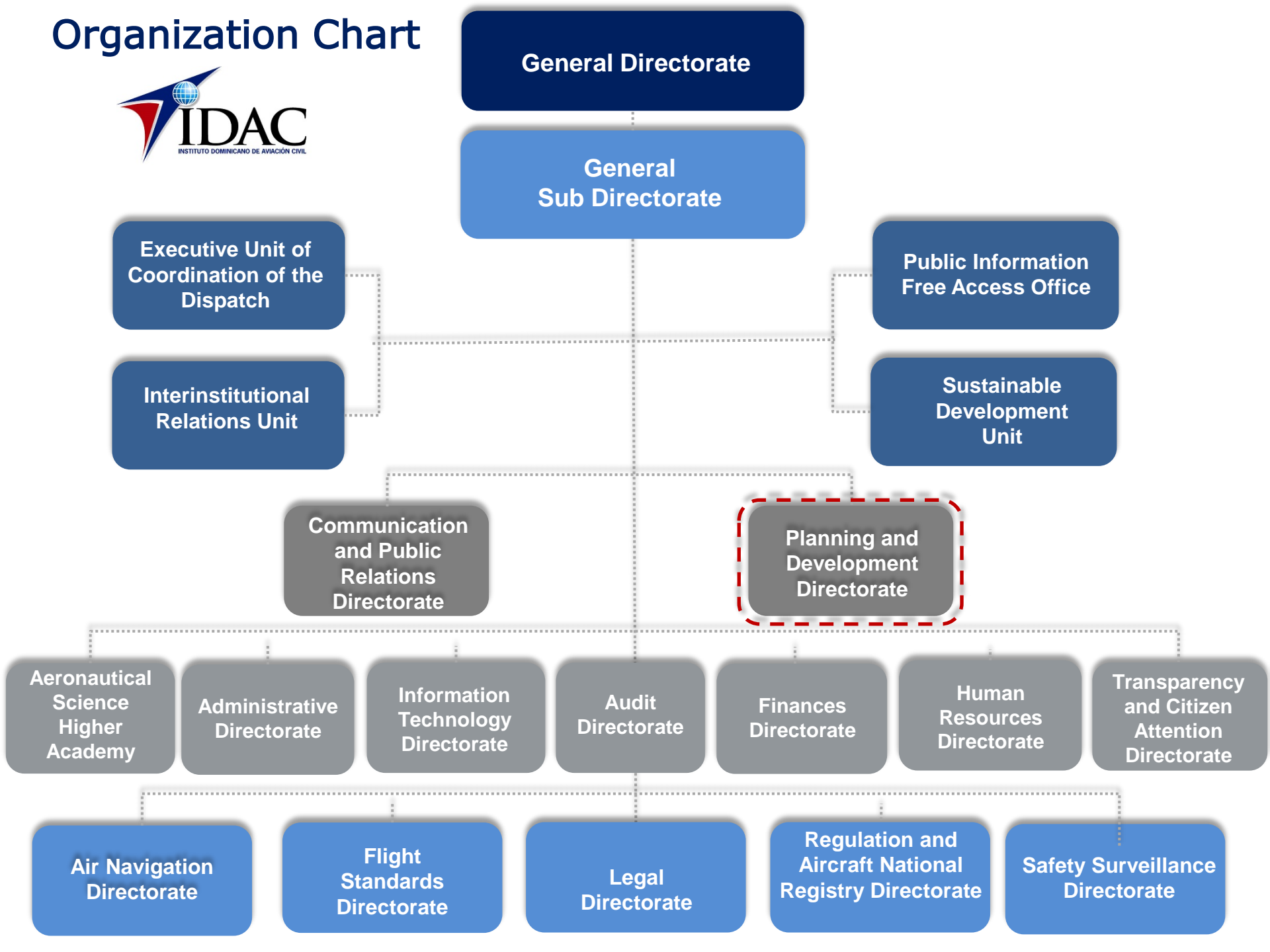
En el IDAC, la seguridad operacional es la primera prioridad de todas sus actividades y procesos, por lo que hemos asumido el compromiso de desarrollar, implementar y mejorar las estrategias, marcos de trabajo, reglamentos y sistemas de gestión para asegurarnos de que todas nuestras actividades, y las actividades bajo nuestra supervisión, mantienen el nivel más elevado de eficacia y eficiencia, se ajustan, como mínimo, a las normas nacionales e inciden positivamente en el cumplimiento en materia de seguridad operacional.

Para este fin nos comprometemos a:

1. Elaborar y aplicar normas nacionales que estén en línea con las normas y métodos recomendados de la Organización de Aviación Civil Internacional (OACI), y las mejores prácticas de la industria.
2. Cumplir, y hacer cumplir, los requisitos, las normas de la Ley y los reglamentos para los que tenemos atribuciones.
3. Definir claramente para todo el personal sus responsabilidades y la obligación de rendir cuentas respecto a la implementación de la estrategia de gestión de la seguridad operacional, su eficacia y eficiencia.
4. Promover buenas prácticas y una cultura positiva de seguridad operacional en el sistema de aviación civil de la República Dominicana, reconociendo la importancia de la gestión eficaz de la seguridad operacional y la incidencia que tienen en la misma todas nuestras actividades, incluidas las de apoyo y administrativas.
5. Adoptar un enfoque basado en datos y en cumplimiento de seguridad operacional para las actividades de regulación y vigilancia de la seguridad operacional, según correspondiera.
6. Identificar las tendencias de seguridad operacional dentro de la industria de aviación civil y adoptar un enfoque basado en gestión de riesgos para abordar las áreas de mayor preocupación o necesidad de la seguridad operacional, reduciendo el riesgo relacionado

Primera Edición Mayo de 2015 30

Organization Chart



Planning and Development Directorate



Planning and Project Department

State Safety Management Department

Integral Management Department

Formulation and Monitoring Internal Control Department



Aeronautical Statistics Division

Conocimiento y contexto de la organización

Strategic Processes

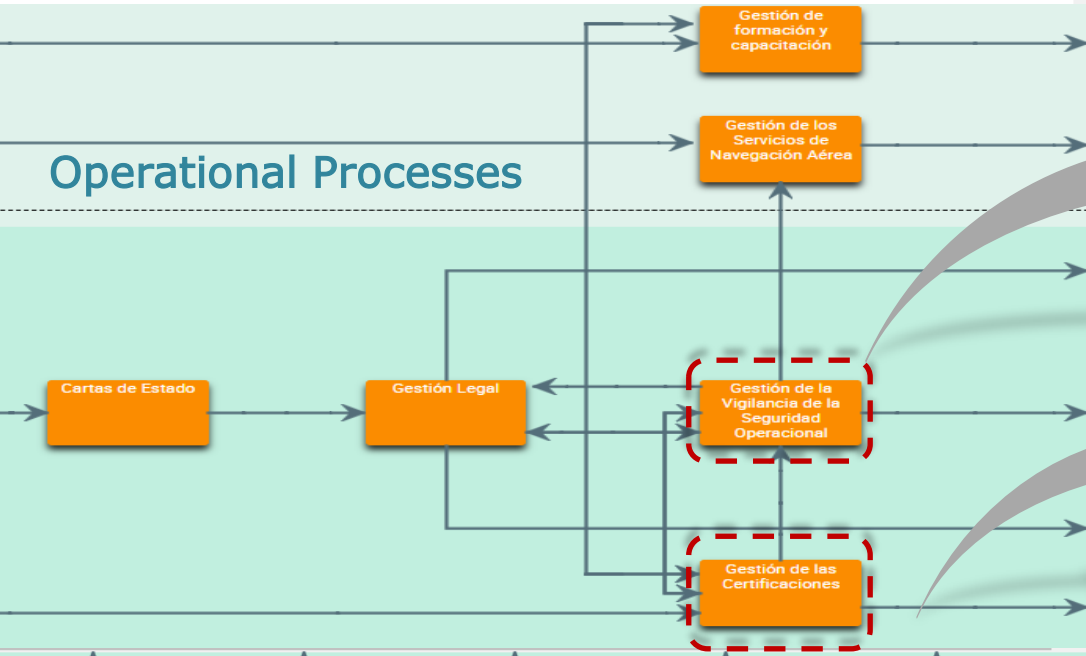


Procesos
Estratégico
Operacional
Apoyo



NECESIDADES Y EXPECTATIVAS DE LAS PARTES INTERESADAS (REQUISITOS)

Operational Processes



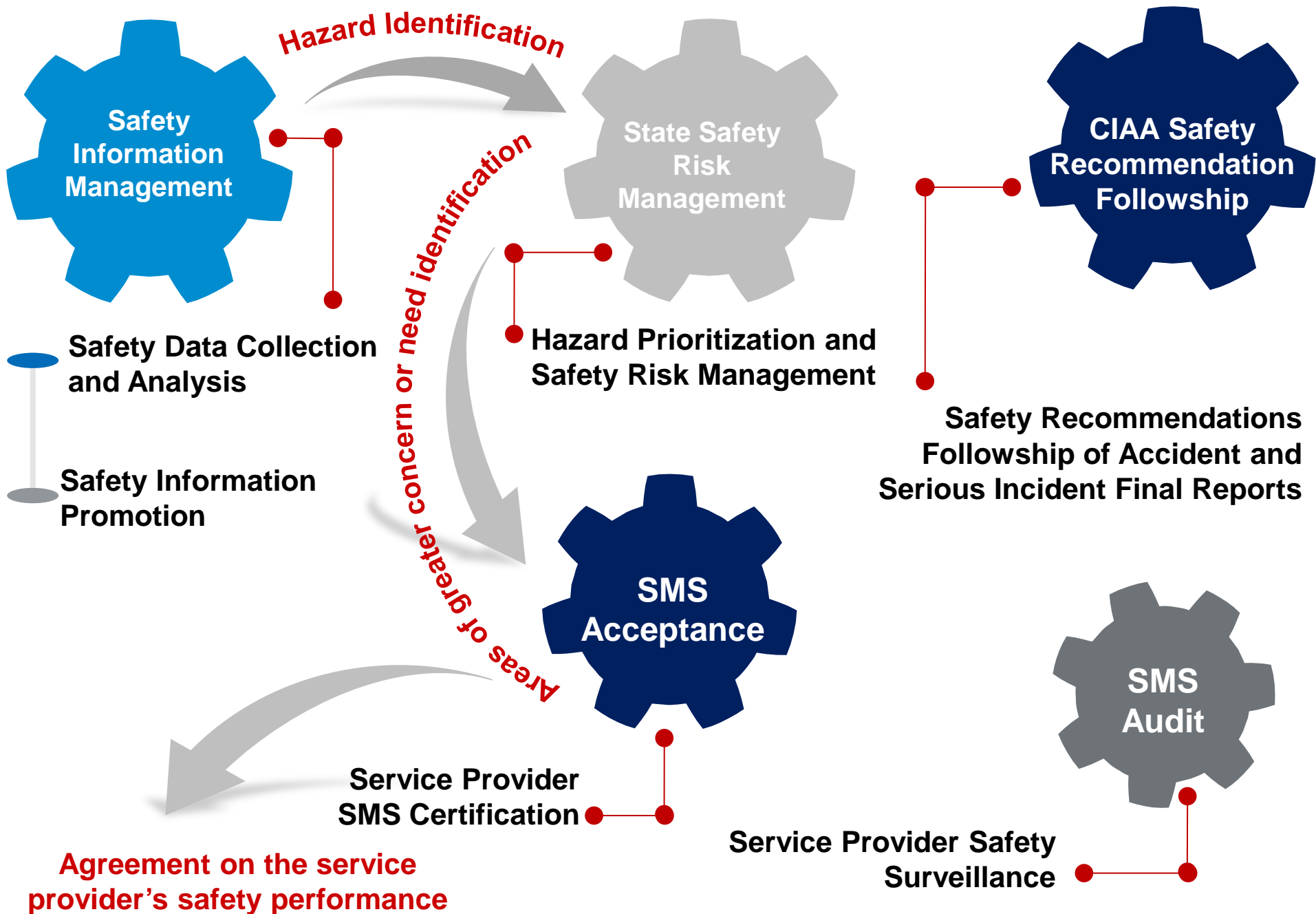
COMUNIDAD DE LOS PRODUCTOS & SERVICIOS SATISFACCIÓN DEL CLIENTE



Integrated System Management Processes Map



State Safety Management Department Processes

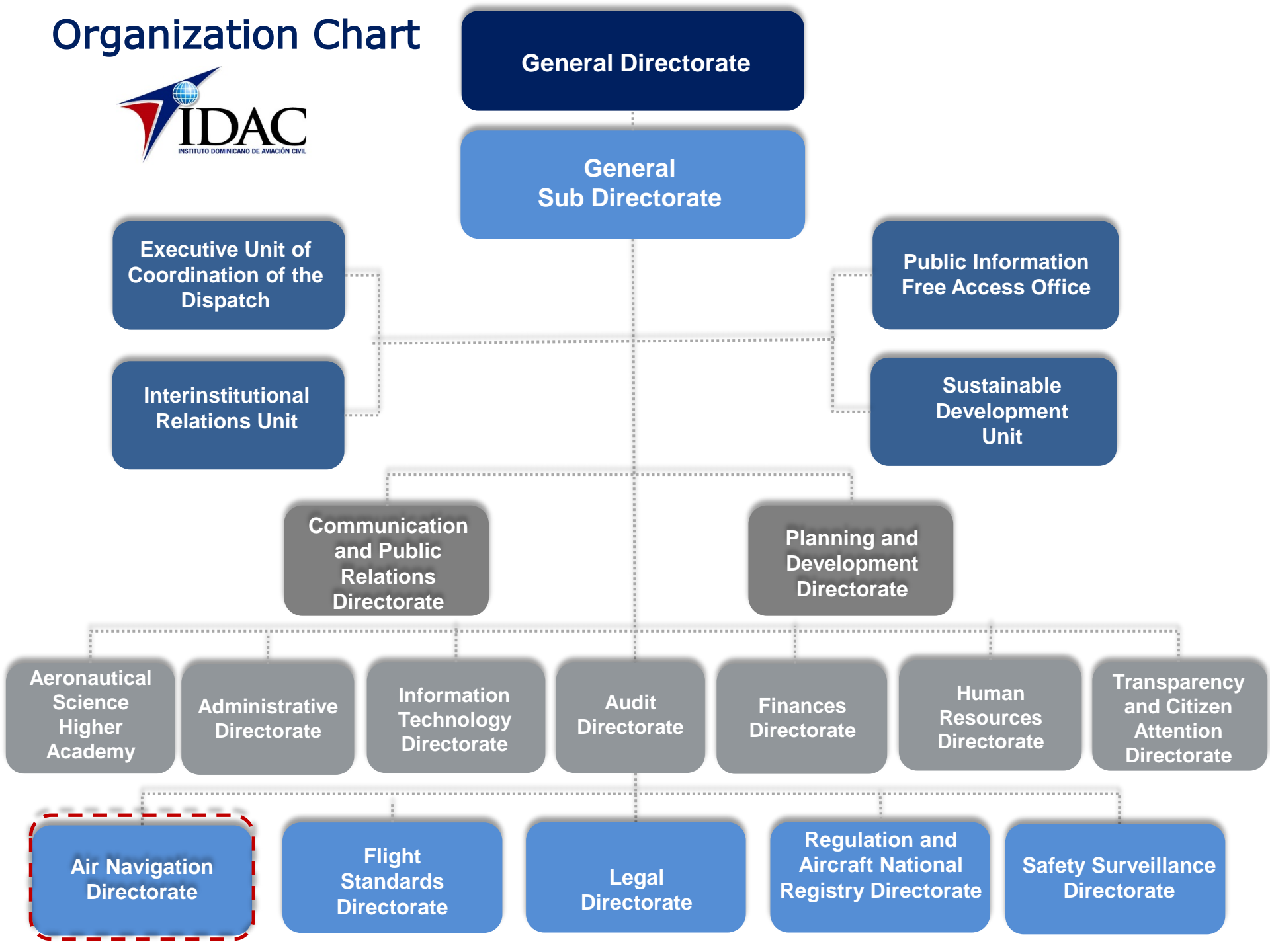




How the **Dominican Republic** accomplishes the Air Navigation Service Provider SMS Implementation?

...But, before answering this question, let's see, what is the Air Navigation Directorate?

Organization Chart



**Air Navigation
Directorate**

**Air Traffic
Management
Department**

**Safety
Management
Department**

**Aeronautical
Information
Management
Department**

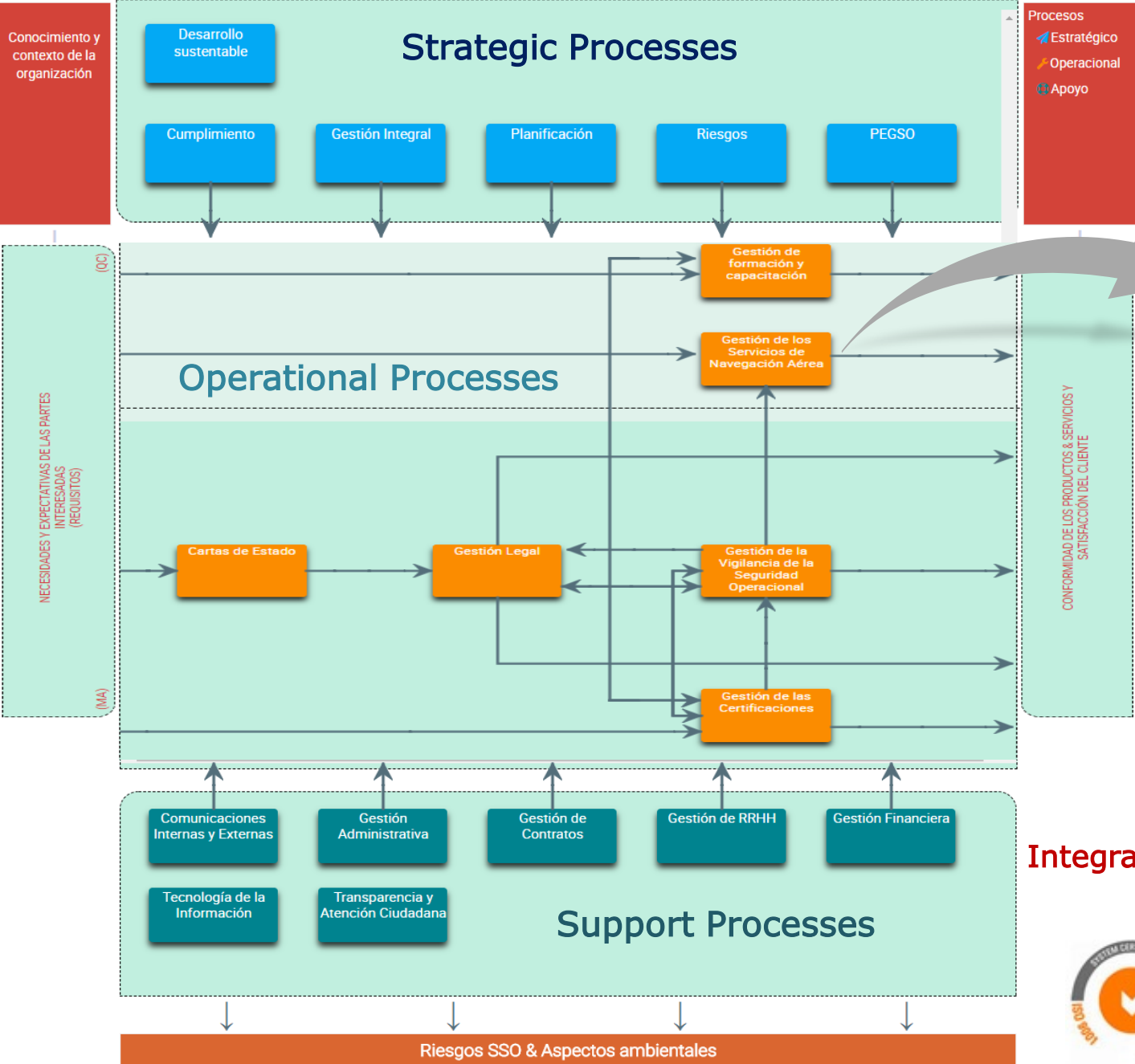
**Communications,
Air Navigation and
Surveillance
Department**

**Safety Risk
Management
Division**

**Safety Assurance
Management
Division**

**ATS Incident
Investigation
Section**

**IMS
Inspection
Section**



Air Navigation Services Management

Integrated System Management Processes Map



Air Navigation Service Provider SMS Scope

Support

Processes

- Safety Risk and Change Management
- SMS Audits, Auto Audit and Inspections
- Safety Communication and Promotion

Operational Processes

- Air Transit Services
- FIS Processing Data
- Aeronautical Publications
- NOTAM Preparation and Issuance
- Communication, Navigation and Surveillance Equipment Maintenance and Support
- Air Navigation Computer System Support

Strategic

Processes

- SMS System Revision
- SMS Corrective Actions
- ATS Incidents Investigations

Air Navigation Service Provider System Characteristics

FIR

175,498
km²

Number
of Operations

133,248
average
operations per
month

Operational
Scope

8
Internationals
Airports

Control
Centers

- 1 Control Center
Modern Santo Domingo FIR
- 1 Control Center
Modern Punta Cana Terminal

System

Thales
Topsky
System

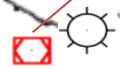


FIR/UIR SANTO DOMINGO MDCS

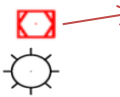
FIR/UIR SANTO DOMINGO MDCS

FIR/UIR SANTO DOMINGO MDCS

PUERTO PLATA
VOR/DME115.1
PTA
19°45'33"N 070°34'14"W



SANTIAGO
VOR/DME114.9
SGO
19°24'26"N 070°36'14"W



EL CATEY
VOR/DME115.8
DCY
19°16'14"N 069°44'27"W



EL HIGUERO NDB 300 HGR 18°34'53"N 069°58'49"W	EL HIGUERO VOR/DME 116.6 DHG 18°34'16"N 069°59'01"W
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SAN ISIDRO
VOR114.5
SIS
18°30'16"N 069°45'45"W



CAUCEDO
VOR/DME 114.7
CDO
18°26'03"N 069°40'02"W



PUNTA CANA
VOR/DME112.7
PNA
18°34'02"N 068°23'00"W



LA ROMANA
VOR/DME 116.20
LRN
18°27'14"N 068°54'43"W



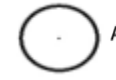
CABO ROJO
VOR/DME 114.3
DCR
17°55'56"N 071°38'52"W



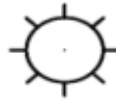
BARAHONA
18°15'16"N 071°07'49"W



- VOR/DME
- VOR
- EQUIPO RADIOTELEMETRICO



AEROPUERTO INTERNACIONAL



INSTALACIONES BASICA DE RADIO



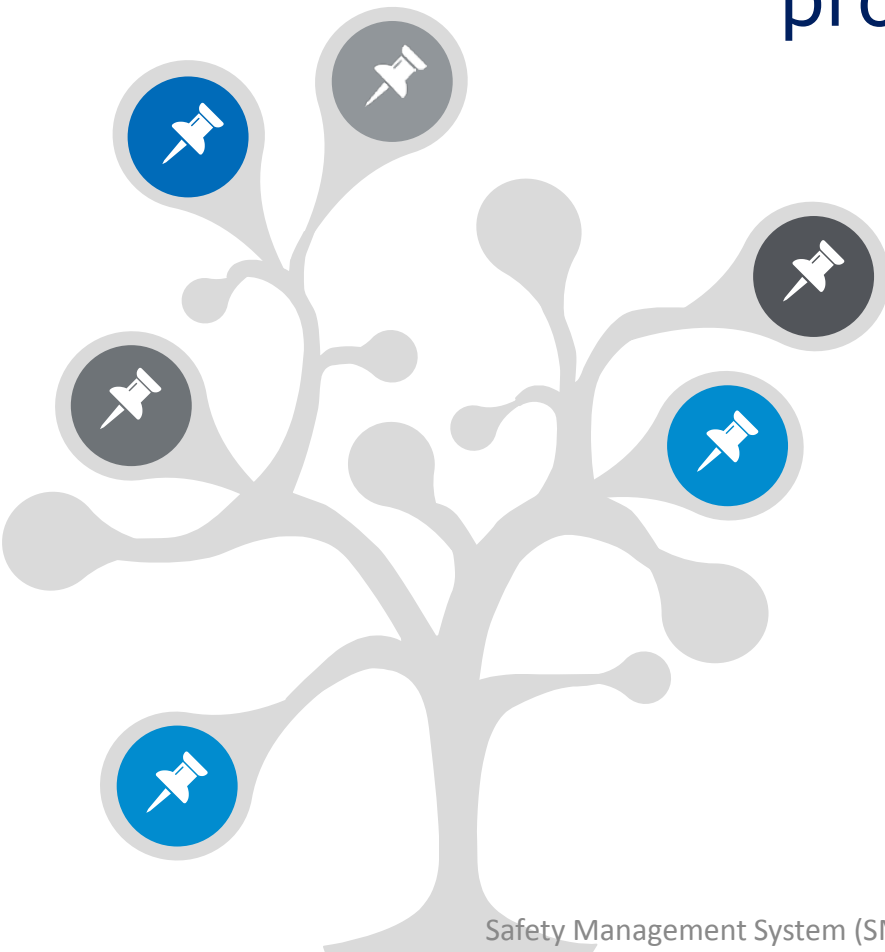
(NDB) RADIOFARO NO DIRECCIONAL

FIR/UIR SANTO DOMINGO MDCS

FIR/UIR SANTO DOMINGO MDCS

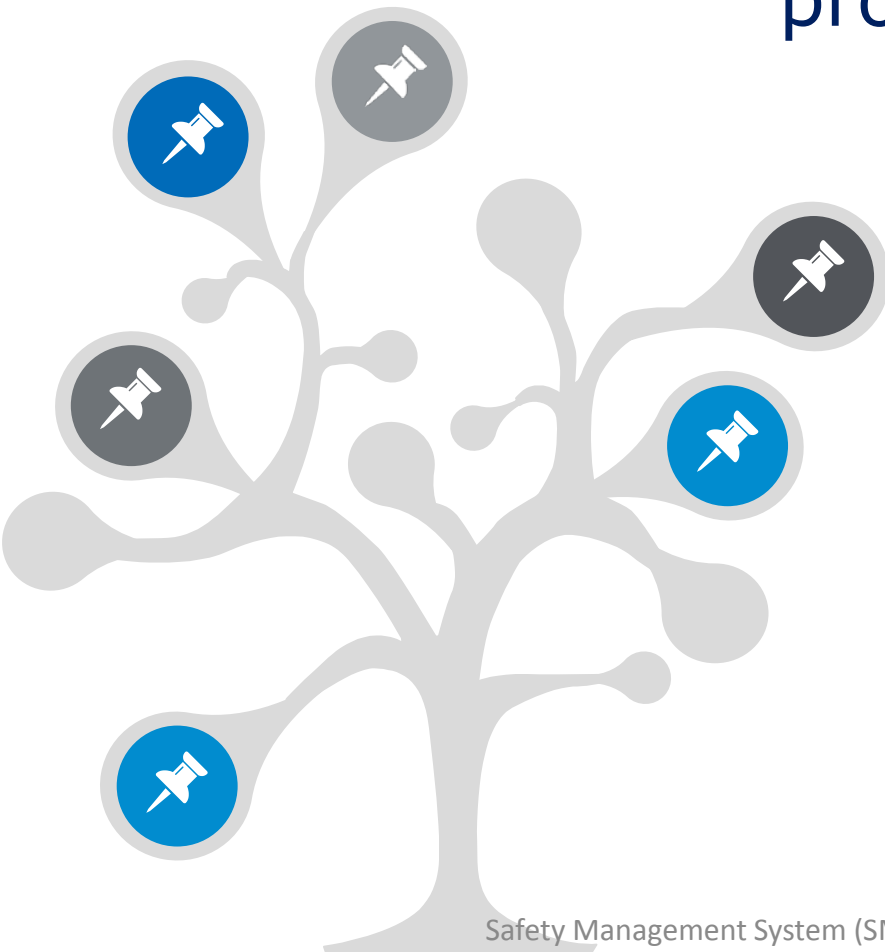
Dominican Republic Air Navigation Service Provider SMS Acceptance Process

Which aspects were taken into account for the acceptance of this type of service provider?

- 
- ✦ The structure of the operational processes and procedures with the objective of examining the criticality, complexity and magnitude;
 - ✦ Designation of a staff with high operational experience accumulated by the SMS implementation planning team of the air navigation service provider;
 - ✦ Analyze the dependencies of air traffic services, where the specific procedures for the provision of the ATS service and of the support services are available, verifying their capacities and their limitations;
 - ✦ Robust platform for capturing reliable operational safety information;

Dominican Republic Air Navigation Service Provider SMS Acceptance Process

Which aspects were taken into account for the acceptance of this type of service provider?

- 
- ✦ Transparency in the obtained results in each approval and / or acceptance by the authority, required to be part of the air navigation services provider to the CAA;
 - ✦ Structured department with adequately trained personnel that conducts investigations of incidents to air traffic services;
 - ✦ Designation of a Operational Risk Control Specialist by the CAA in order to make visits of assistance;
 - ✦ Compliance with SMS implementation times established in the Dominican regulation, as it is the first time that the process for this type of service provider has been activated.

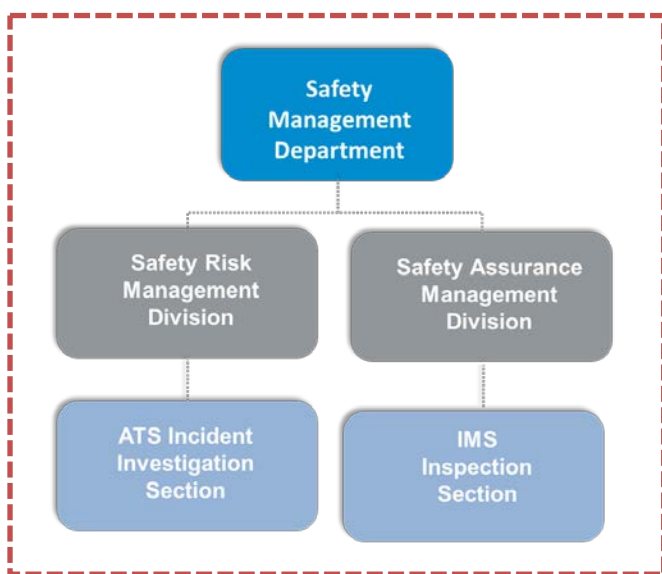


How the **Dominican Republic** accomplishes the Air Navigation Service Provider SMS Implementation?

**...Do you remember this
question?**

Dominican Republic Air Navigation Service Provider SMS Acceptance Process

Conformation of an organic structure



Process Based-Approach

Implementation experience of a Quality Management System allows the organizational structure to work under a process-based approach.



Key Personal Designation



- Accountable Executive
- Safety Manager

- Air Traffic Controller
- More than 30 years of operational experience;
- Different supervisory and control positions;
- Safety Trainings;



Trustworthy Safety Data Collection and Processing System (SDCPS)



- Radar system database;
- Web Platform of Operational Safety Reports;
- Events Reports;

**Data Providers # 1
Dominican State**

Dominican Republic Air Navigation Service Provider SMS Acceptance Process

Continuity Services Plan or Emergency Response Plan



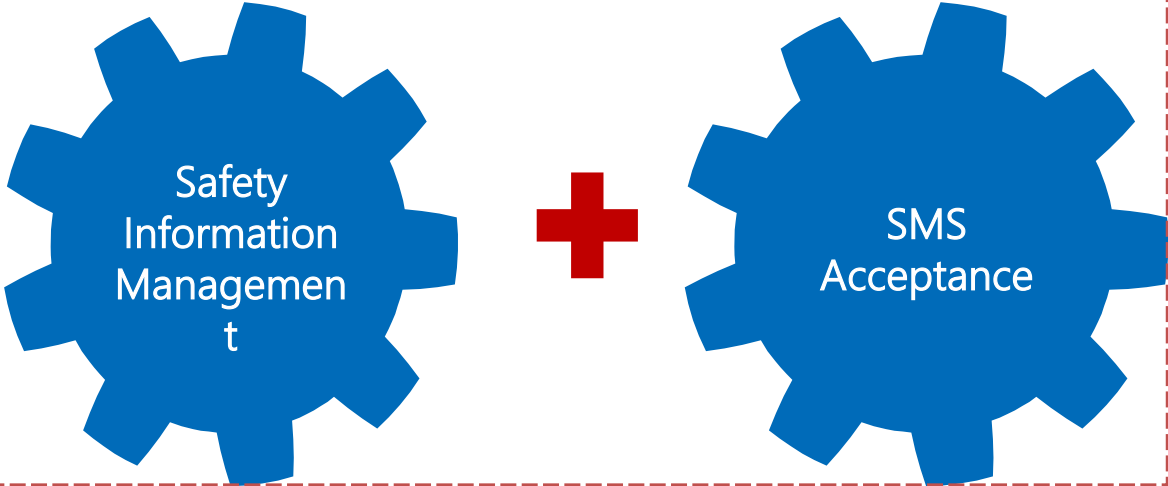
- 1) Safety Data Analysis (Using the performance of previous years as a baseline);
- 2) Hazards Priorization;
- 3) Establish of Agreements

Safety Defined Objectives

SPI Defined System and accepted by the CAA


- 1) Loss of Separation
- 2) Runway Incursion (ATS)
- 3) Large Deviations of Altitude (LHD)

State Safety Management Program

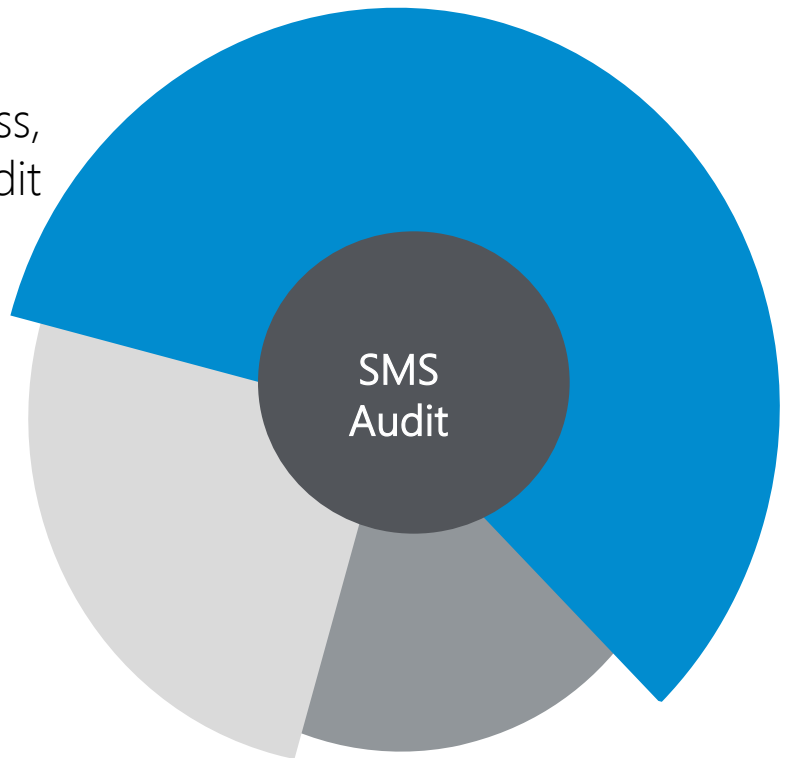


Dominican Republic Air Navigation Service Provider SMS Acceptance Process

¿How the Dominican State monitors the Air Navigation Service Provider SMS?

 **1** Through an SMS Audit process, which has an Annual SMS Audit Program.

The Dominican State has established the performance of two SMS tracking audits for the Air Navigation service provider.



Thank you so much!