



Plan Nacional de Navegación Aérea Costa Rica

Dirección General de Aviación Civil Costa Rica  
Presentado por  
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# Plan Nacional de Navegación Aérea Costa Rica

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# PNNA Costa Rica

## Introducción



# Contenido



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Datos estadísticos

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Metodología de Planificación

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Análisis de necesidades e implementación ASBU

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Áreas de prioridad

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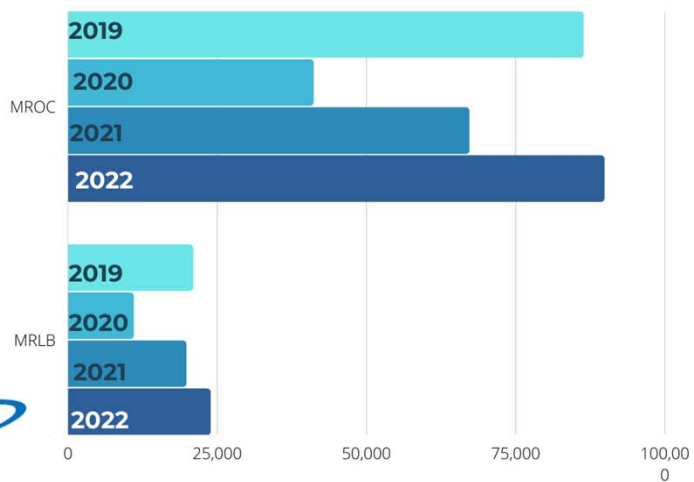
Experiencia de implementación

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COSTA RICA  
**RESUMEN OPERACIONES 2019 - 2022**

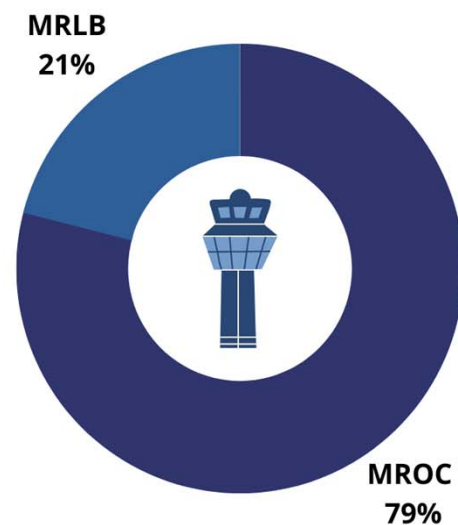


**OPERACIONES ANUALES 2019 - 2022**



FUENTE: ELABORACIÓN PROPIAS CON DATOS ATFM

**COMPOSICIÓN OPERACIONES 2019 - 2022**

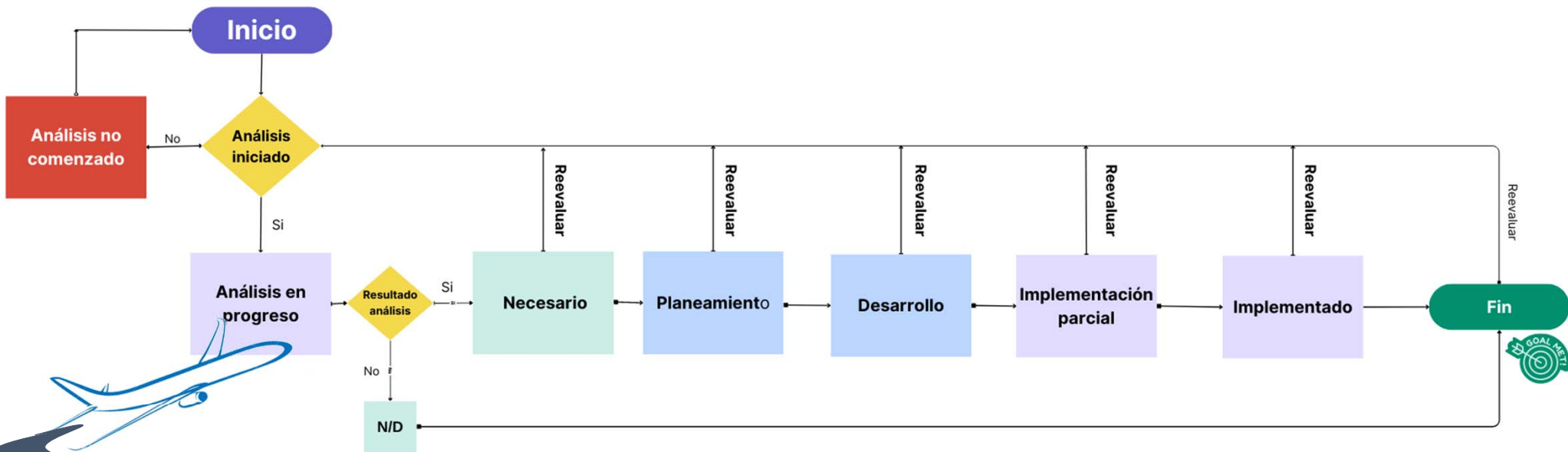


FUENTE: ELABORACIÓN PROPIA CON DATOS ATFM



# Proceso selección elementos ASBU

## Diagrama flujo de trabajo Selección de elementos ASBU



# Selección elementos ASBU

Selección inicial 2018

Taller FAA




Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
<b>Performance Improvement Area 1: Airport Operations</b>				
ACDM	1. Interconnection between aircraft operator & ANSP systems to share surface operations information	Number of aerodromes to be considered: 2 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1, or 2</i> c. How many aerodromes implemented the capability? <i>None, 1, or 2</i>	<b>B0-ACDM-1 Target 1:</b> Assessed in August 2018 a. Yes b. 1 (MROC) <b>B0-ACDM-1 Target 2:</b> Implement by Dec 2019 c. None	Status – Planning  Only MROC needs this capability.
	2. Interconnection between aircraft operator & airport systems to share surface operations information	Number of aerodromes to be considered: 2 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1, or 2</i> c. How many aerodromes implemented the capability? <i>None, 1, or 2</i>	<b>B0-ACDM-2 Target 1:</b> Assessed in August 2018 a. Yes b. 1 (MROC) <b>B0-ACDM-1 Target 2:</b> Implement by Dec 2019 c. None	Status – Need  Only MROC needs this capability.
	3. Interconnection between airport operator & ANSP systems to share surface operations information	Number of aerodromes to be considered: 2 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1, or 2</i> c. How many aerodromes implemented the capability? <i>None, 1, or 2</i>	<b>B0-ACDM-3 Target 1:</b> Assessed in August 2018 a. Yes b. 1 (MROC) <b>B0-ACDM-3 Target 2:</b> Implement by Dec 2019 c. None	Status – Planning  Only MROC needs this capability.
	4. Interconnection between airport operator, aircraft operator & ANSP systems to share surface operations information	Number of aerodromes to be considered: 2 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1, or 2</i> c. How many aerodromes implemented the capability? <i>None, 1, or 2</i>	<b>B0-ACDM-4 Target 1:</b> Assessed in August 2018 a. Yes b. 1 (MROC) <b>B0-ACDM-4 Target 2:</b> Implement by Dec 2019 c. None	Status – Need  Only MROC needs this capability.
	5. Collaborative	Number of aerodromes to be considered: 2	<b>B0-ACDM-5 Target 1:</b>	Status – Need

# ASBU ELEMENTS

AMET-B0/1

Functional Description    Enablers    Deployment Applicability    Performance Impact Assessment

## AMET

AMET-B0/1	Meteorological observations products	Information
Main Purpose 	Meteorological observations in support of flexible airspace management, improved situational awareness, collaborative decision-making and dynamically optimized flight trajectory planning.	
New Capabilities 	Provision of observations of additional meteorological parameters/elements. More automated observations. Higher temporal and spatial resolution for lightning, radar and satellite information.	
Description 	<p>This element represents the provision of meteorological observational products including:</p> <ul style="list-style-type: none"><li>• Automatic Weather Observation System (AWOS) information (including real-time exchange of wind and RVR data)</li><li>• Local reports (MET REPORT / SPECIAL)</li><li>• Aerodrome reports (METAR / SPECI)</li><li>• Lightning information</li></ul>	

Actualización  
elementos  
ASBU 2021

Herramienta tecnológica  
portal GANP



Elementos ASBU  
seleccionados



## Elementos ASBU seleccionados

Costa Rica

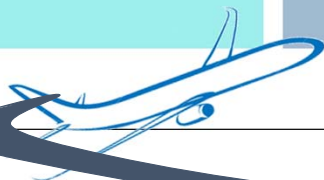
ELEMENTO	MÓDULO	BLOQUE	NECESIDAD	DESARROLLO	IMPLEMENTADO
Direct Routing	FRTO	0	✓		
Medium Term Conflict Detection	FRTO	0	✓		
Tools for ground operations	SURF	0	✓		
Basic PBN SID STAR	APTA	0			✓



## Elementos ASBU seleccionados

Costa Rica

ELEMENTO	MÓDULO	BLOQUE	NECESIDAD	DESARROLLO	IMPLEMENTADO
DIGITAL AIP	DAIM	0			✓
Electronic terrain and obstacles data sets	DAIM	1			✓
AIDC	FICE	0		✓	



# KPI's Costa Rica



09. Capacidad máxima aeropuerto



20. Número de accidentes



21. Incursiones de pistas



22. Excursiones de pista



23. Airprox / Midair





## Fortalezas

- Apoyo y compromiso de la gerencia de alto nivel.



## Debilidades

- Acceso a la información.
- Medición de costos y beneficios.
- Falta recursos financieros.



## Oportunidades

- Herramientas tecnológicas y apoyo logístico de OACI.
- Crecimiento demanda servicio.



## Amenazas

- Entorno económico incierto
- Información voluminosa y compleja



¡Muchas Gracias!

Thank you!