

SAIOSEACG 4

Strengthening Cross-FIR Collaboration to Enhance Regional Operational Efficiency

Bangkok, Thailand



Presented by CHINA



2025.03





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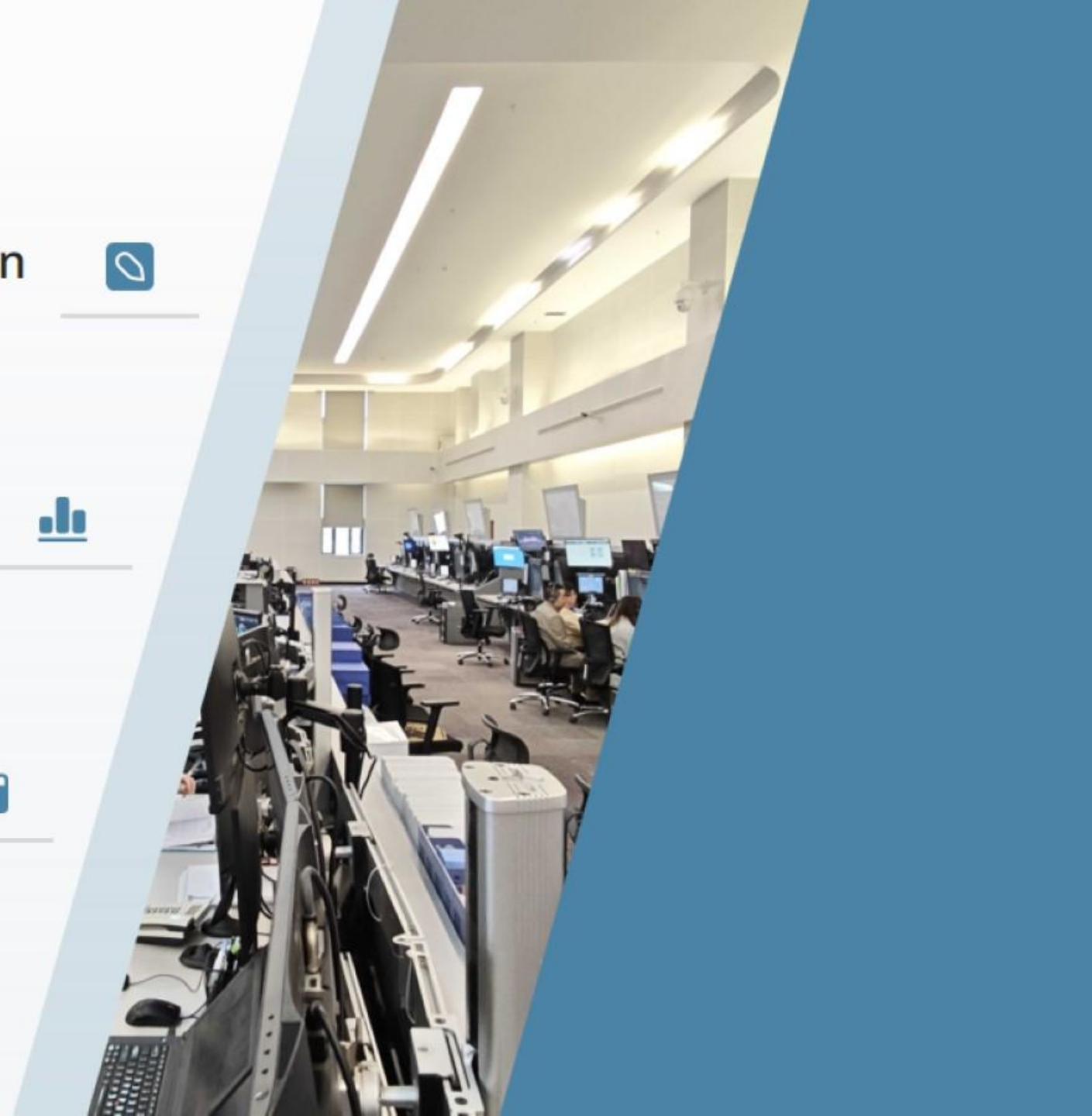
Introduction



Discussion



Action by the Meeting



01

Introduction

----- Bangkok, Thailand -----



Introduction

Recent Progress

Initiatives by ICAO groups (e.g., SAIOSEACG) have enhanced safety, capacity, and efficiency.

Cross - FIR Collaboration

- Essential for integrating diverse operational procedures.
- Example: Domestic operations can use 10 NM separation, whereas cross-FIR operations currently use 20 NM.

Emerging Needs

- Approaching rainy season and increasing traffic demand make further collaboration imperative.
- Overcoming differences in safety cultures, training standards, and procedures is key.



02

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A1 Parallel Route Planning

Background

Parallel routes along A1 have been explored over the past decade with five candidate proposals.

Current Challenge

Traffic levels since 2025 are approaching or exceeding capacity limits.

Key Recommendation

Accelerate consensus on a feasible route roadmap to raise airspace capacity and enhance long-term safety.

Implementation of AIDC



Case Example

AIDC between Sanya and Hanoi ACC has reduced daily telephone coordination by an average of **4 hours**.



Benefits

Streamlined communication, increased operational efficiency, and minimized the potential for human error.



Challenges

Inconsistencies in **TOC** and **AOC** timing due to differing safety cultures.



Future Direction

Expand AIDC to other regions (e.g., Ho Chi Minh ACC) to further improve cross-FIR integration.

L642/M771 Reduced Transfer Separation Trials

Trial Overview

Reduced handover separation from 50 NM to 20 NM on L642 and M771 from **0200 to 1200 UTC**

Operational Impact

Average of **36 flights** per day operated within the 20–50 NM range, enhancing airspace efficiency.

Next Steps

- Consider extending trials to **24-hour** operation.
- Evaluate transitional separation options (e.g., temporary 30 NM) under specific scenarios like LSWDCP.



A1/A202 Transfer Separation Reduction Research



Importance of Busy Corridors

A1 and A202 are among the region's busiest routes.

► 01

Research Focus

Reducing handover separations to 15 NM – potentially even 10 NM.

► 02

Evaluation Components

Safety and capacity assessments, HITL, fast-time simulations, and flight simulator validations.

► 03

Objective

Increase operational capacity while upholding safety standards in alignment with APAC Seamless ANS Plan.

► 04

Enhancing Airborne Rerouting Efficiency

01



Current Process

Traditional **“approval-first”** rerouting delays operations, especially during peak periods or severe weather.

02



Proposed Change

Transition to a **“notification-based”** process with pre-coordinated rerouting paths.

03



Benefits

Immediate implementation of rerouting with post-facto notifications improves system responsiveness and flexibility.



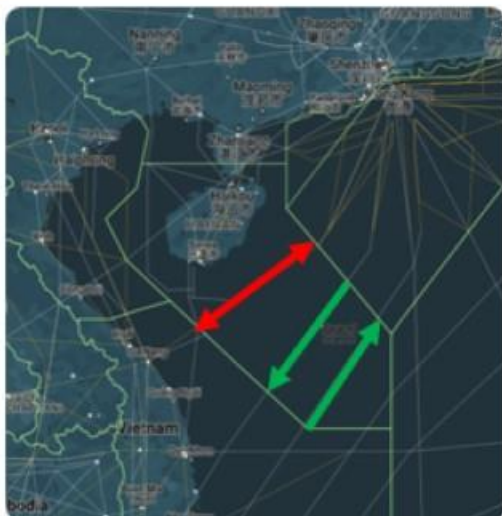
Example - Enhancing Airborne Rerouting Efficiency

A202



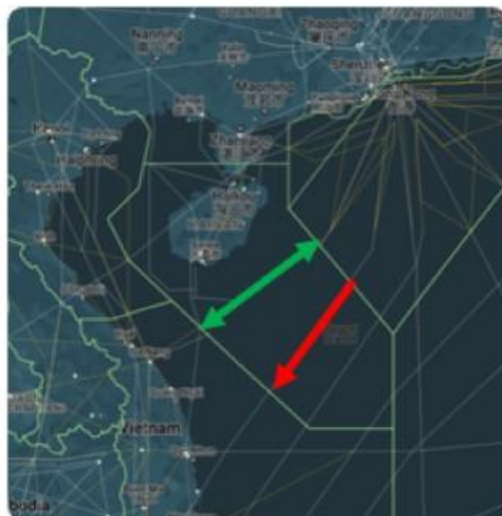
A1/L642/M771

A1



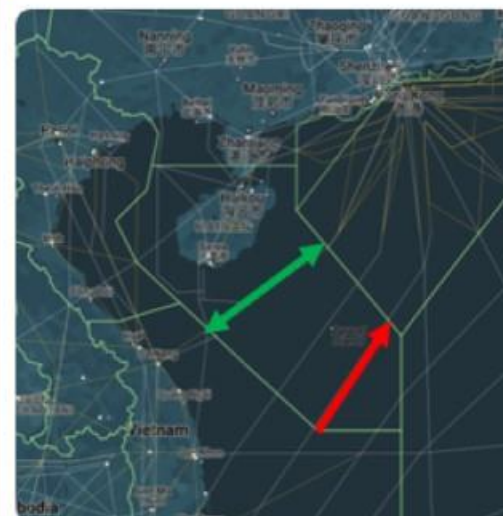
L642/M771

L642



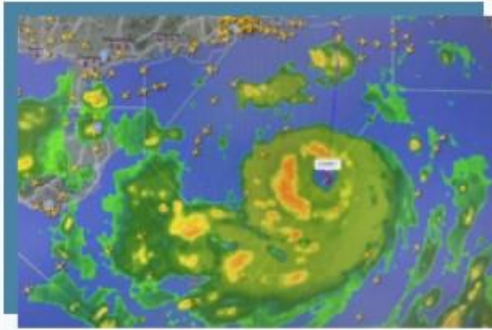
A1

M771



A1

Information Sharing for Diverted Flights



01

Issue

Diversions during prolonged rainy seasons lead to flights entering adjacent FIRs unexpectedly.



02

Challenges

- Incomplete situational awareness and limited surveillance in receiving FIRs.
- Certain air routes are situated close to FIR boundaries.



03

Recommendations

- Establish clear procedures for information sharing.
- Ensure early notifications (preferably 15 minutes in advance) to adjust operations and maintain safety.



Coordination on Lateral Deviations Near Handover Points



Operational Practice

- ◆ Maintaining appropriate lateral separation between aircraft on bidirectional routes is crucial
- ◆ Sanya ACC has implemented lateral offset procedures on A1/A202



Proposal

- ◆ Related States/Administrations are encouraged to adopt similar lateral offset
- ◆ Providing a tolerance zone such as allowing lateral deviations within 10 NM of the handover point



Expected Outcome

Reduced coordination complexity and improved traffic flow consistency.

Optimization of ATFM Measures

Existing Challenges

Current ATFM measures (level restrictions, MIT, check-for-startup) impose high workloads on controllers.

Proposed Shift

Transition towards ATFM solutions based on CTOT or Flow Rate.

Benefits

Reduced controller workload, improved safety, and enhanced operational efficiency.

Example

Implement Flow Rate metrics (e.g., 2 aircraft per 15 minutes or 5 per 30 minutes) where CTOT is not available.



03

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Invitation to the Meeting

01 Note the Information

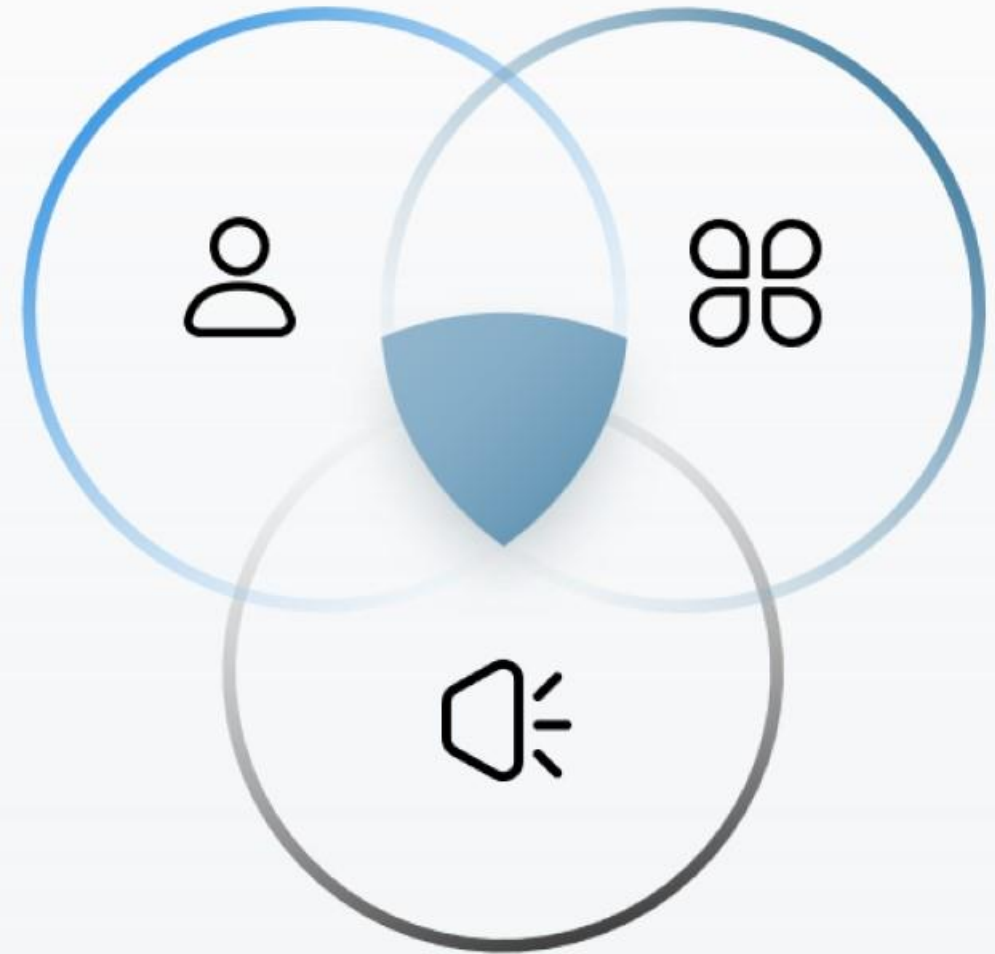
Note the information presented in the paper.

02 Encourage Collaboration

Encourage all stakeholders to implement feasible and actionable collaboration measures on the discussed topics.

03 Discuss Further Matters

Discuss any further relevant matters as appropriate.



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THANKS

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