



SCS-TFRG/11

INTRODUCTION TO THE ROADMAP FOR ATS RECOVERY IN SANYA FIR

Presented by CHINA



SUMMARY



Provide better air traffic services for airspace users
Promote safe and effective ATS during the recovery



ROADMAP

For ATS recovery in
Sanya FIR
from 2023 to 2025





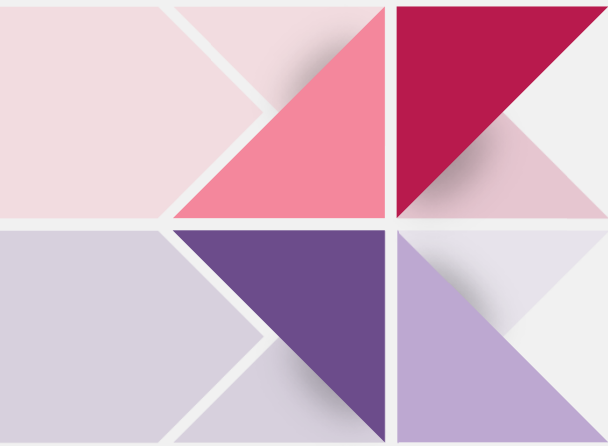
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03. ACTION BY THE MEETING





01

INTRODUCTION

Introduction



Domestic flights

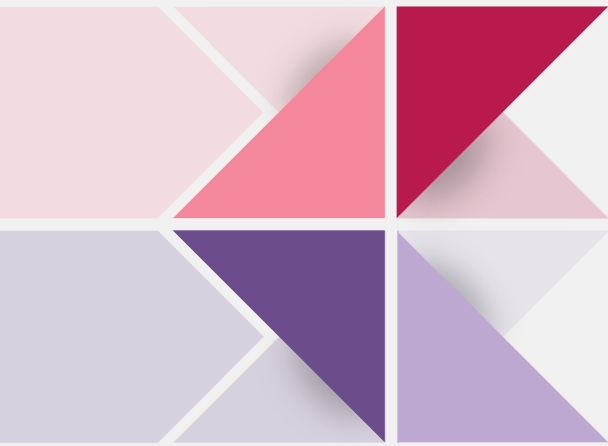
- increase of **2.3%** compared to 2019

International flights

- recovered to **66%** compared to 2019
- A1:recovered to **75%** compared to 2019

Introduction





02

DISCUSSION

Discussion

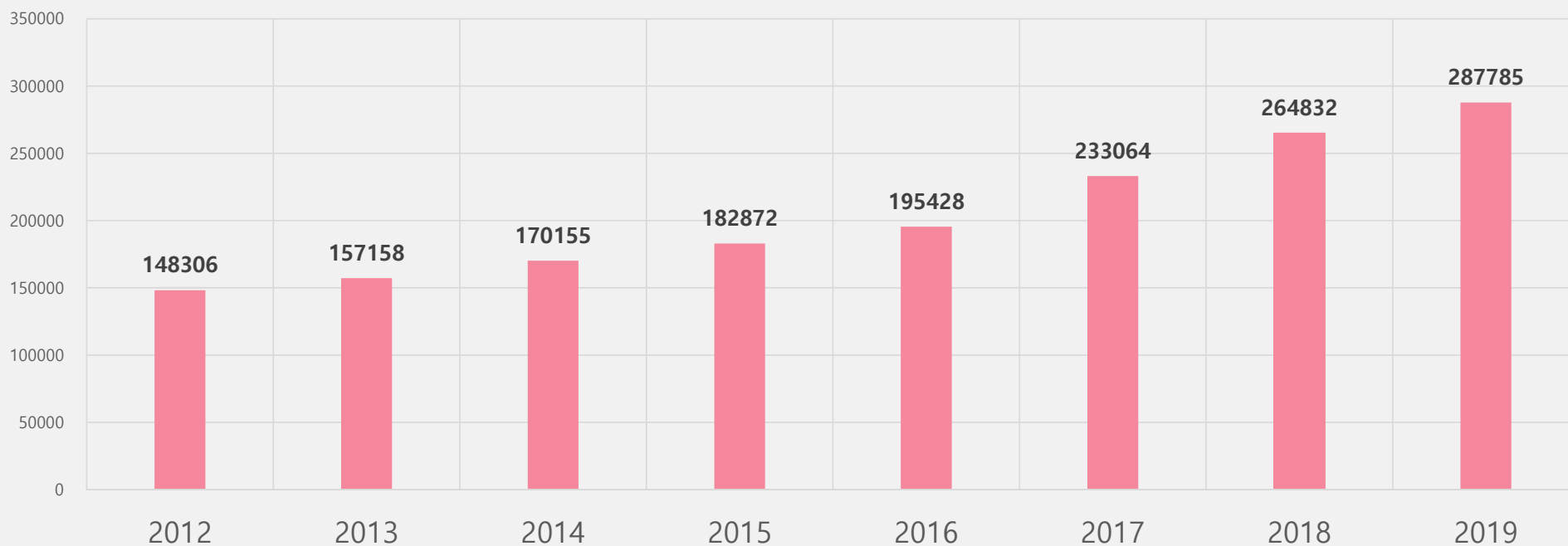
Analysis of traffic volume on oceanic sectors in Sanya FIR



Flights before 2019

The average annual growth rate is 9.93%.

Annual Flights on routes A1/L642/M771 (2012-2019)



Discussion

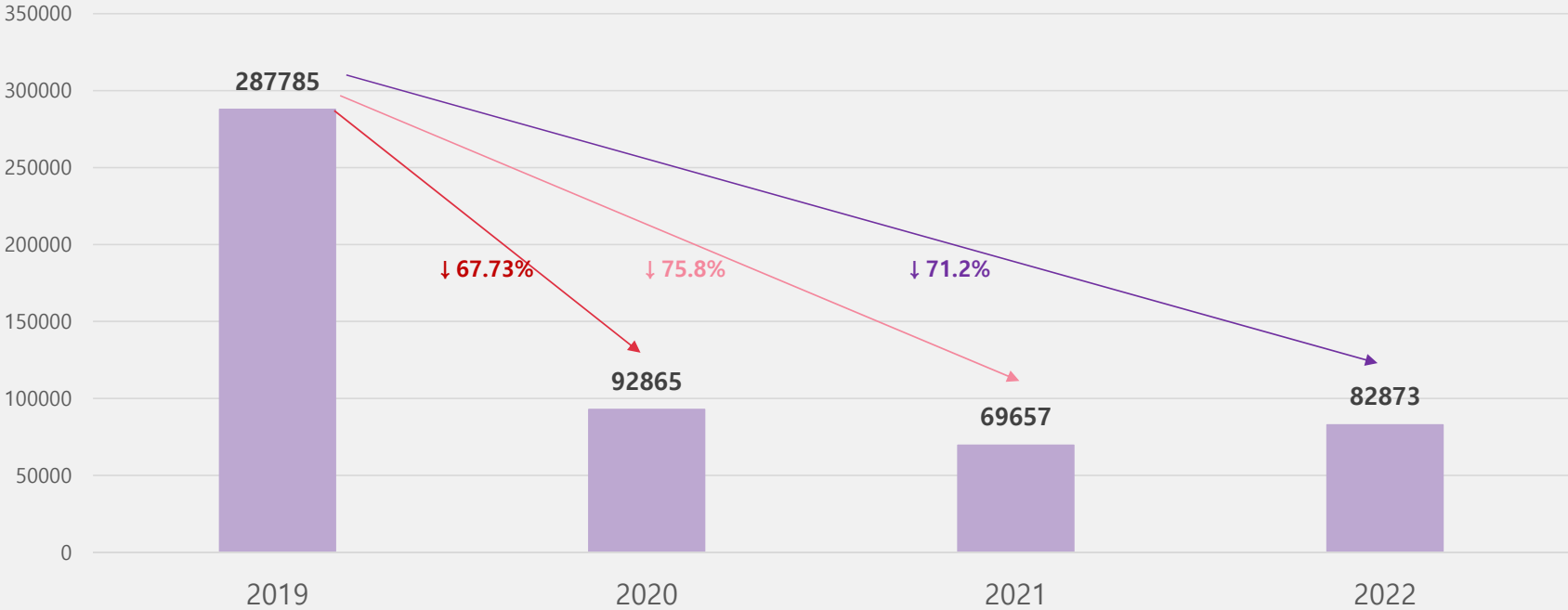
Analysis of traffic volume on oceanic sectors in Sanya FIR



Flights of 2020-2022

2020 falls 67.73%, 2021 falls 75.8% compare to 2019, 2022 falls 71.2% compare to 2019.

Annual Flights on routes A1/L642/M771(2019-2022)



Discussion

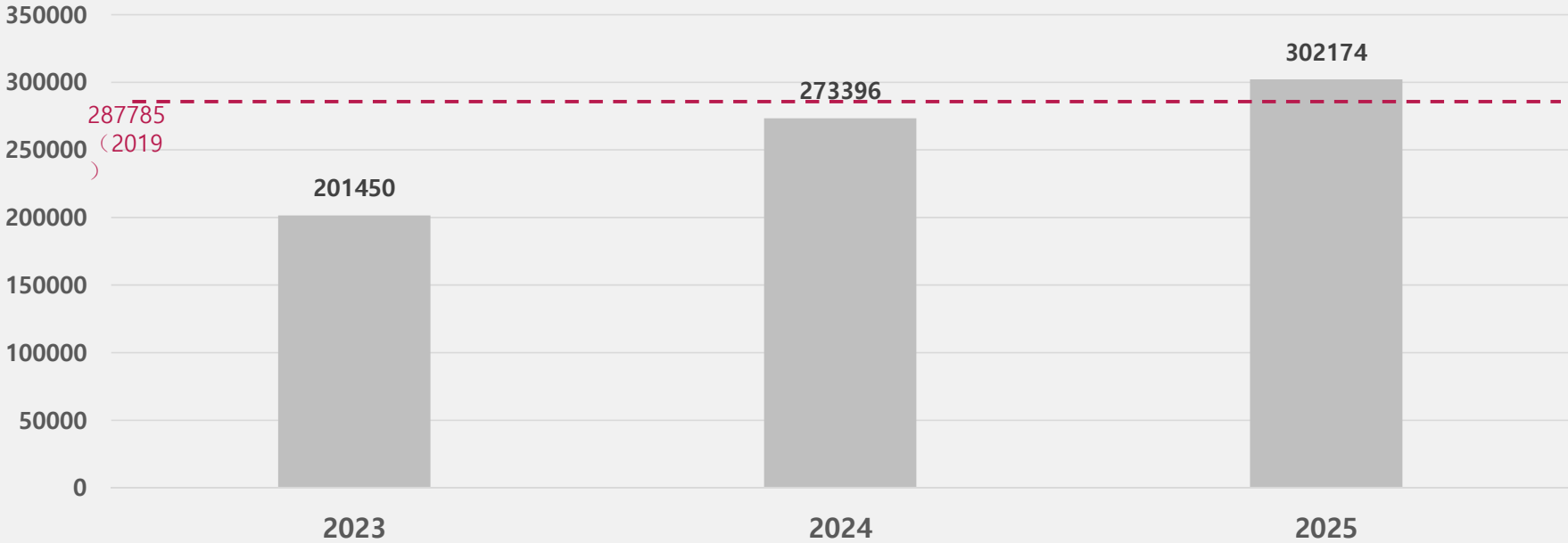
Analysis of traffic volume on oceanic sectors in Sanya FIR



Flights after 2023 (prediction)

The flight volume from 2023 to 2025 will respectively back to 70%,95%,105% of traffic volume compared to 2019.

Figure 3 Prediction of annual flights on routes A1/L642/M771 (2023-2025)



Discussion

Analysis of traffic volume on oceanic sectors in Sanya FIR

The annual rate of growth from 2022 to 2025 can be concluded shown in table as follows.

Year	2022	2023	2024	2025
Total	82873	201450	273396	302174
Annual rate of growth	18.90%	143.08%	35.71%	10.53%
Prediction of annual rate of growth on route A1/L642/M771(2022-2025)				

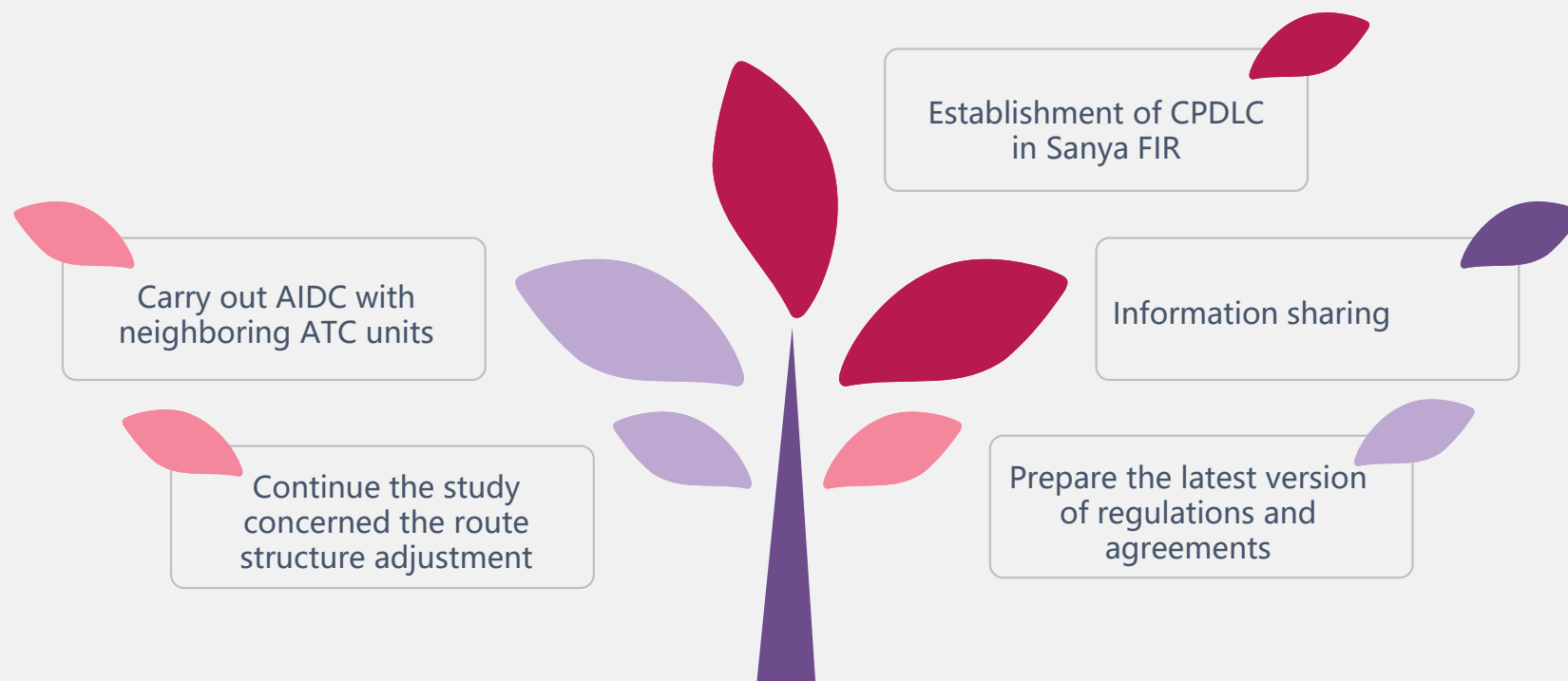
Discussion

Air traffic services roadmap from 2023 to 2025

PHASE 01
2023

phase of basic foundation and preparation.

The growth rate of flights in 2023 is expected to be the highest in recent years (143.08% growth in 2023 compared to 2022), so there is an urgent need to make a series of preparations as follows.

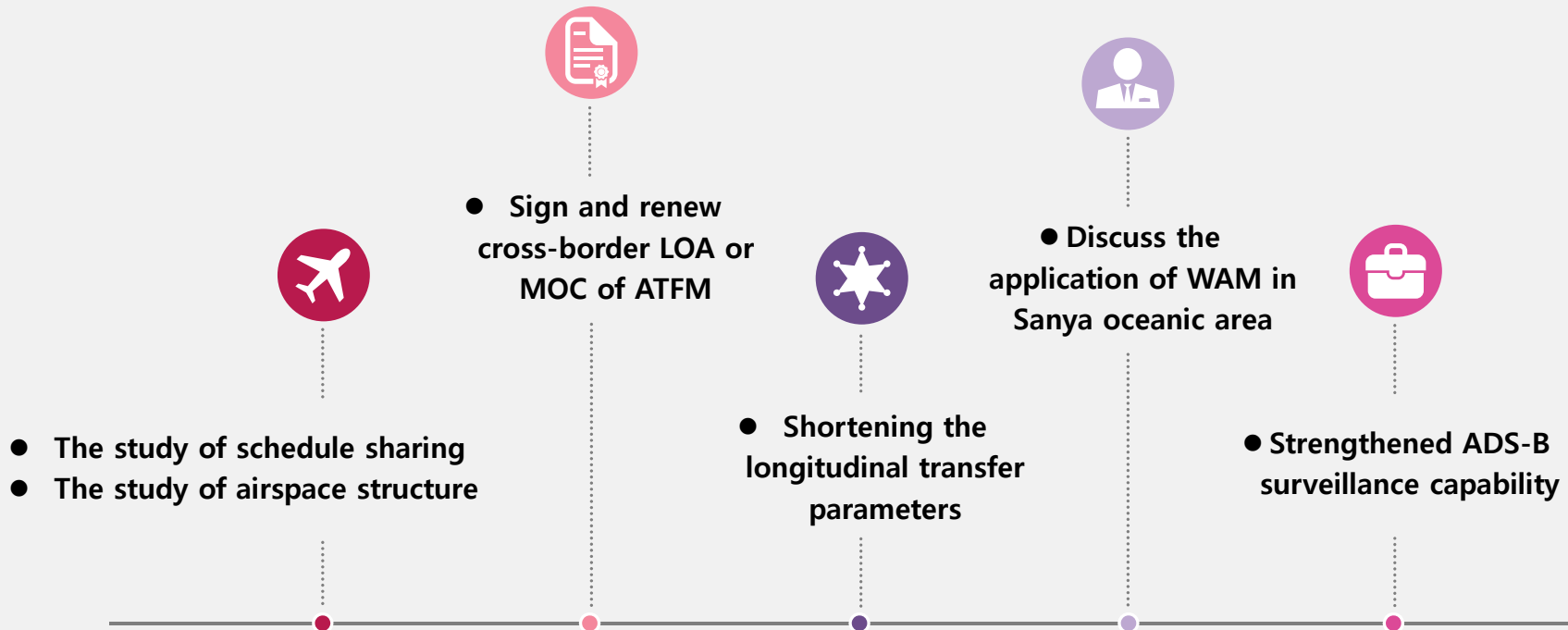


Discussion

Air traffic services roadmap from 2023 to 2025

PHASE 02
2024

The period of recovery.



Discussion

Air traffic services roadmap from 2023 to 2025

PHASE 03
2025-

The period of flight development.

This phase put emphasis on airspace structure adjustment, level arrangement optimization, separation reduction as well as application of new technology that helpful in improving airspace carrying capacity, in which efficient ATC service will become the motivation of flight development instead of bottleneck.

Accomplishment of
opening up parallel routes



Carrying out appropriate
information sharing



CPDLC implementation in
Sanya FIR



Transition from FLAS and
FLOS



Discussion

Recent key work emphasis

A1 parallel route

- 40% of the flights requiring altitude change
- Benefits of Safety, capacity and efficiency

1

L642/M771 longitudinal spacing and Nav Spec

- Navigation specification and longitudinal spacing
- Hong Kong, Ho Chi Minh and Sanya have conducted preliminary communication

2

Complete AIDC implementation

- The daily average calls will be 319 times approximately
- Inefficiency and mistakes that are easily made by during calls.

3

More transfer flight levels

- Some levels are still not the NO-PDC levels at present.
- effectively reducing controller's coordination work

4

Discussion

Recent key work emphasis

05

Collaboration on surveillance capabilities

- 15 (9+6) ADS-B + 9 (8+1) radar
- The second-level ADS-B data center of ATMB CAAC.

06

Optimize letter of agreement

- AIDC
- The altitudes arrangement
- ATFM agreement
-

07

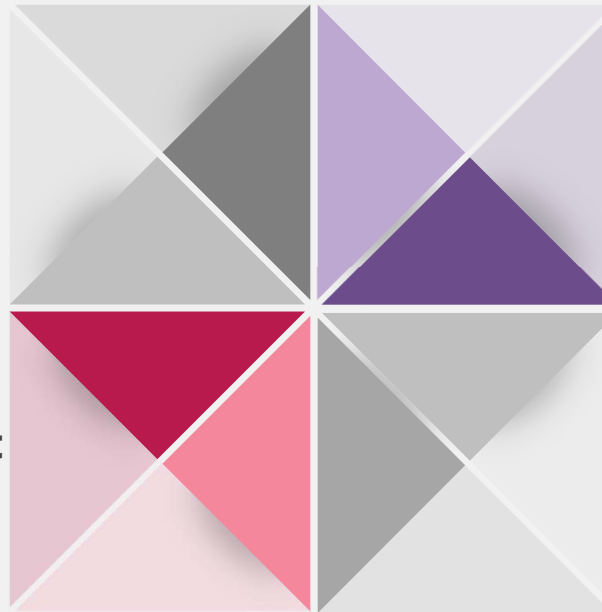
CPDLC operation experience sharing

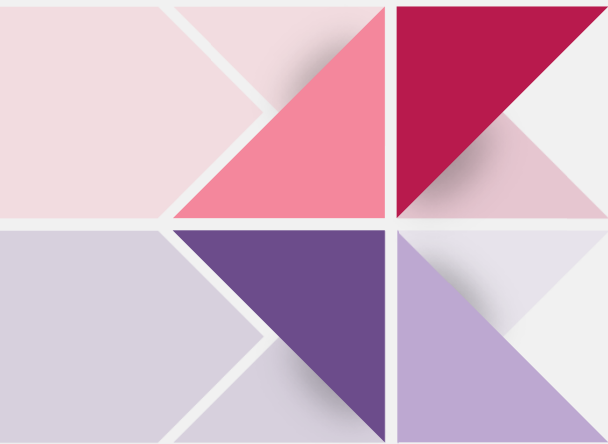
- Gradually intensify and optimize CPDLC operations
- CPDLC experience sharing and function optimization

08

Solution to improve the safety redundancy of ATC services

- Communication, Surveillance equipment coverage
- emergency delegation of air traffic services to be provided





03

ACTION BY THE MEETING

Action by the meeting

The meeting is invited to:

01

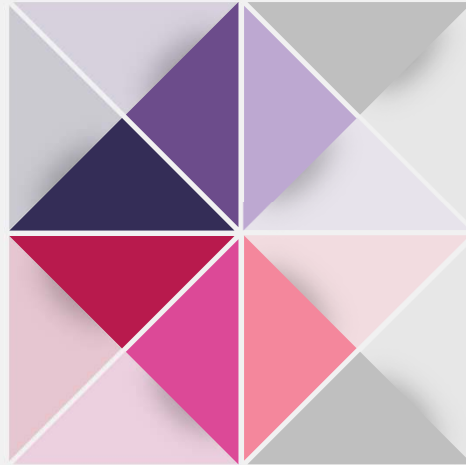
note the information contained in this paper

02

encourage the close collaboration mentioned on this paper with Sanya FIR to promote the fast recovery of air traffic services from 2023 to 2025

03

discuss any relevant matters as appropriate



Thank you

Presented by CHINA