## **NARAHG**

Northeast – Asia Regional ATFM Harmonization Group

## Raphael Guillet

Chief, ICAO Asia & Pacific Regional Sub Office

Singapore / 20th November 2017





#### **Table of Content**

- ICAO Regional Sub Office ATFM Role
- NARAHG
- Regional Harmonization

20 November 2017



## **ICAO APAC Regional Sub Office ATFM Role**

#### **History**

RSO was inaugurated in Beijing on 27 June 2013.

#### Goal

- ▼ To assist APAC States for the <u>implementation</u> of :
  - **Air Traffic Flow Management and Collaborative Decision Making (ATFM/CDM)**
  - Airspace Management (ASM)
  - ▼ Performance Based Navigation(PBN)
  - ★ Civil Military ATM coordination (CMAC)

#### **Means**

- \* Acting as secretary of regional/specific working group to ease coordination between States in the region
- Organizing dedicated workshop for several States
- Providing specific assistance on request from a State



# New RSO ATM Regional Officers, dedicated ATFM/CDM

Hiroyuki Takata

htakata@icao.int

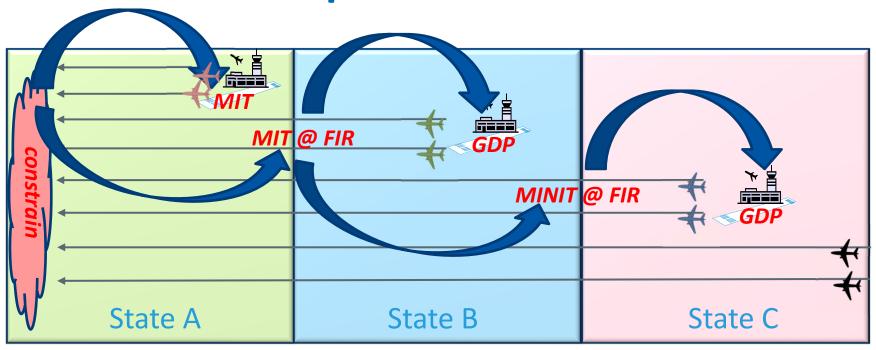
Li Wenxin

wli@icao.int





### **Previous ATFM practices in Northeast Asia**



- Lack of information with transparency
- Lack of Information in a timely manner



- Information sharing
- ATFM Daily Plan
- Post Operations Analysis
  - MIT : Miles In Trail
  - GDP : Ground Delay Programme
  - MINIT : Minutes In Trail



#### **NARAHG**

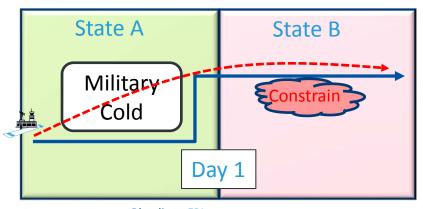
 Northeast - Asia Regional ATFM Harmonization Group (NARAHG) was established in 2014

China, Japan and Republic of Korea are members

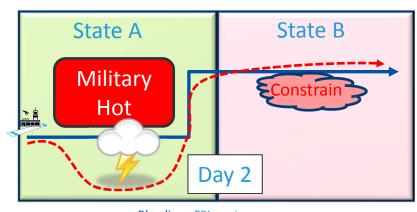
ICAO was requested to support the work program

 NARAHG aims to achieve harmonization of ATFM/CDM in North East Asia through introducing a cost effective means of operations, and timely and effective coordination

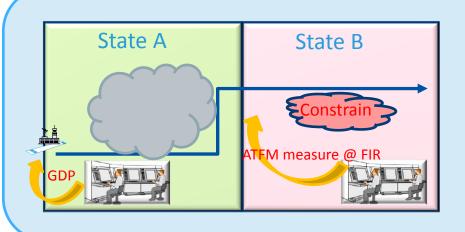
## **Current NARAHG Work (GDP Based)**



Blue line : FPL route
Red line : Actual flight route



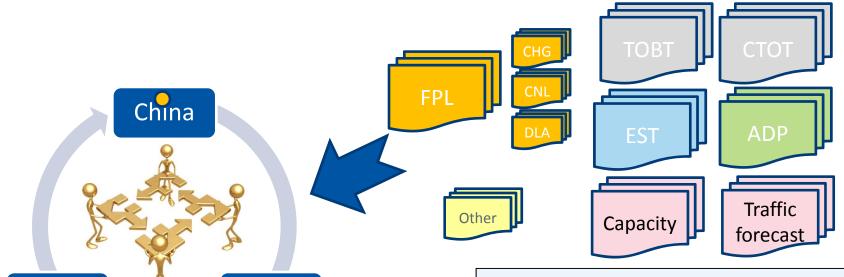
Blue line : FPL route
Red line : Actual flight route



- 1. State B's ATFM unit issue ATFM measure at FIR boundary only
- 2. State A's ATFM unit issue ATFM measure (e.g. GDP) to meet ATFM measure from State B with the considerations of the situations which affect airspace capacity (e.g. WX, Military airspace and so on) within State A's FIR

\* GDP: Ground Delay Programme

## **Information Sharing Platform for NARAHG**



Information sharing Platform separated from the operational ATFM systems

Japan

Exchange ATFM critical information for situational awareness

Trigger the ATFM solutions based on the demand capacity imbalance

Collaborative decision making among ANSP through the platform

- CRACP: Cross Region ATFM Collaborative Platform
- Interface Control Document based on FIXM4.0

ROK

#### **Plan**

#### Achievement

- Information Sharing platform prototype development
- ATFM Daily Plan exchange
- Post Operations Analysis
- LOA signed between Shanghai ATCC ATFMD and Fukuoka ATMC

#### Short term

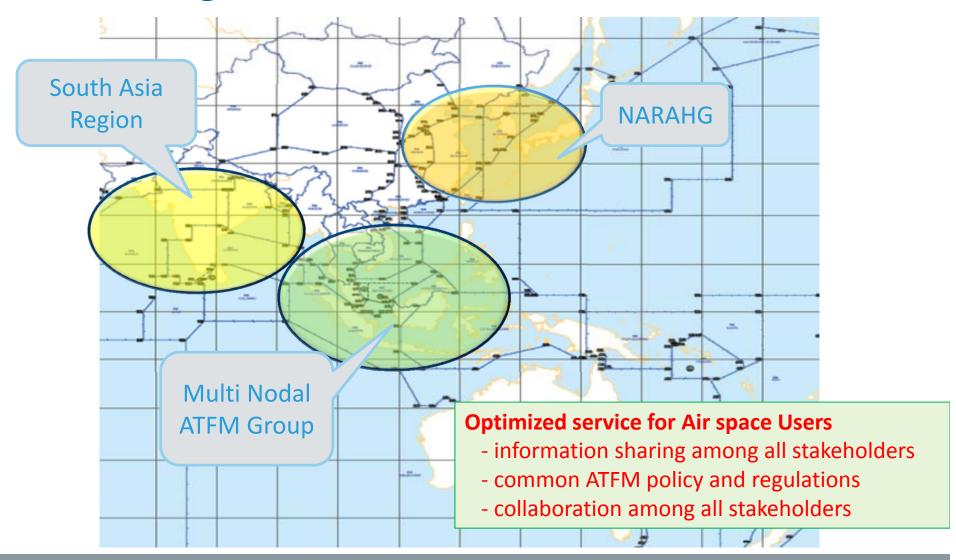
- Information Sharing platform prototype deployment
- Calculated Time of Overfly (CTO) at FIR boundary instead of MIT

#### Long term

- Trajectory Based Operations (TBO)
- System Wide Information Management (SWIM)



## Regional ATFM Harmonization



20 November 2017



