



International Civil Aviation Organization

The Second Meeting of ICAO Asia/Pacific Air Traffic Flow Management Steering Group (ATFM/SG/2)

Hong Kong, China, 1 – 4 October 2013

Agenda Item 5: Development of Regional ATFM Framework

THAILAND ATFM STATUS

(Presented by Thailand)

SUMMARY

This information paper presents status of ATFM initiatives in Thailand in accordance to ATFM Operational Management framework in ICAO Manual on Collaborative ATFM (Doc 9971).

This paper relates to –

Strategic Objectives:

A: *Safety – Enhance global civil aviation safety*

C: *Environmental Protection and Sustainable Development of Air Transport – Foster harmonized and economically viable development of international civil aviation that does not unduly harm the environment*

Global Plan Initiatives:

GPI-6 Air traffic flow management

1. INTRODUCTION

1.1 The meeting would recall that the ICAO Manual on Collaborative ATFM (Doc 9971) was initially released at the ICAO Air Navigation Conference (AN-Conf/12) in November 2012 as draft document, garnering suggestions from States. While the updated manual is due to be released at the Advanced ATM Techniques Symposium and Workshops in November 2013 in Montreal, the manual summarized ATFM operations in respect to traffic demand, airport/airspace capacity assessment and ATFM operations in an ATFM Operational Management framework.

2. DISCUSSION

2.1 Thailand's current ATFM-related initiatives are summarized in **Attachment 1**, mapping current initiatives to traffic demand, airport/airspace capacity assessment and ATFM operations in various phases of operations.

3. ACTIONS BY THE MEETING

3.1 The meeting is invited to note information presented in this WP.

.....

Thailand ATFM Status



ICAO ATFM Steering Group Meeting
(ATFM/SG/2)

30 September – 4 October 2013

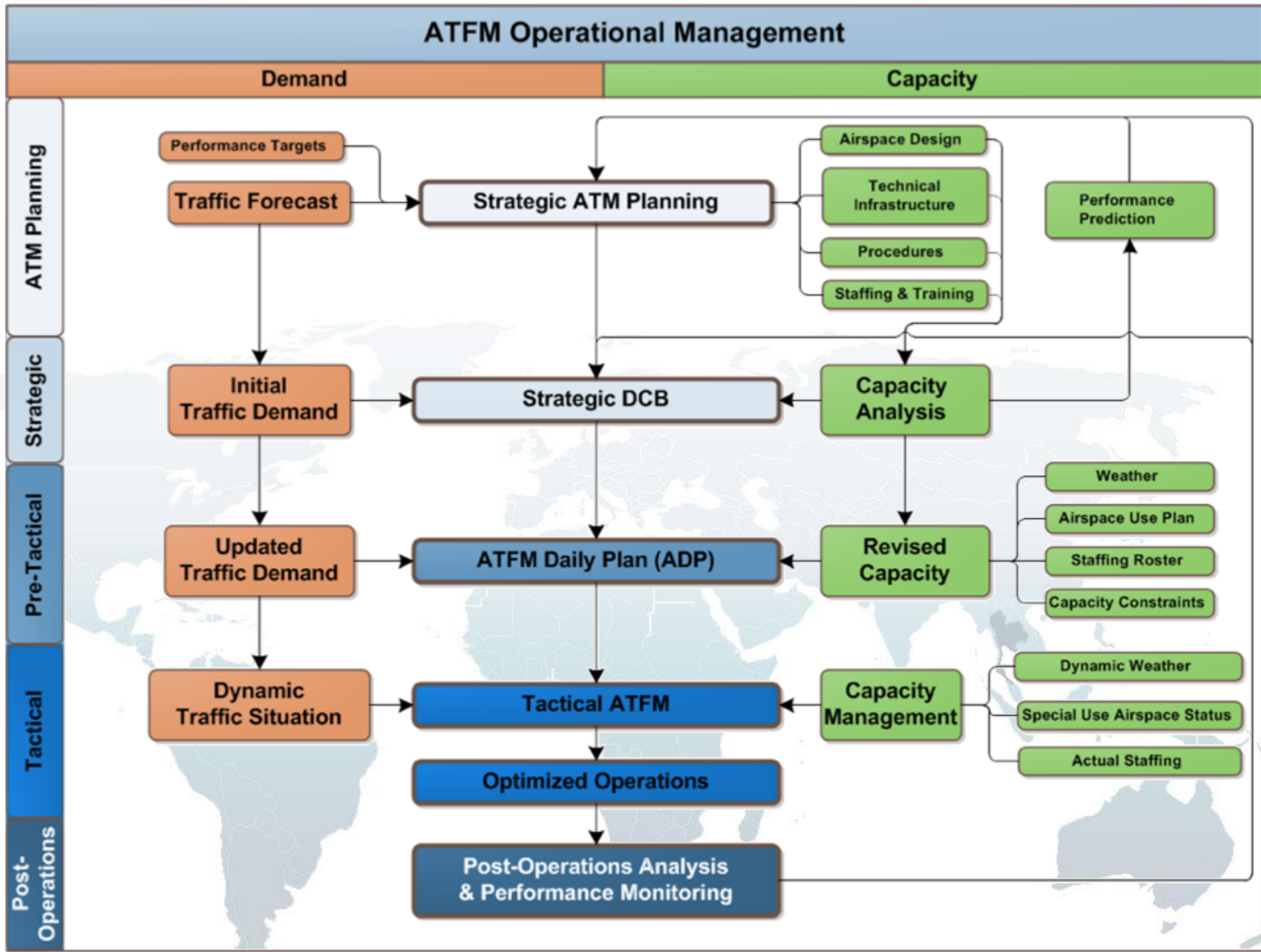
Hong Kong, China



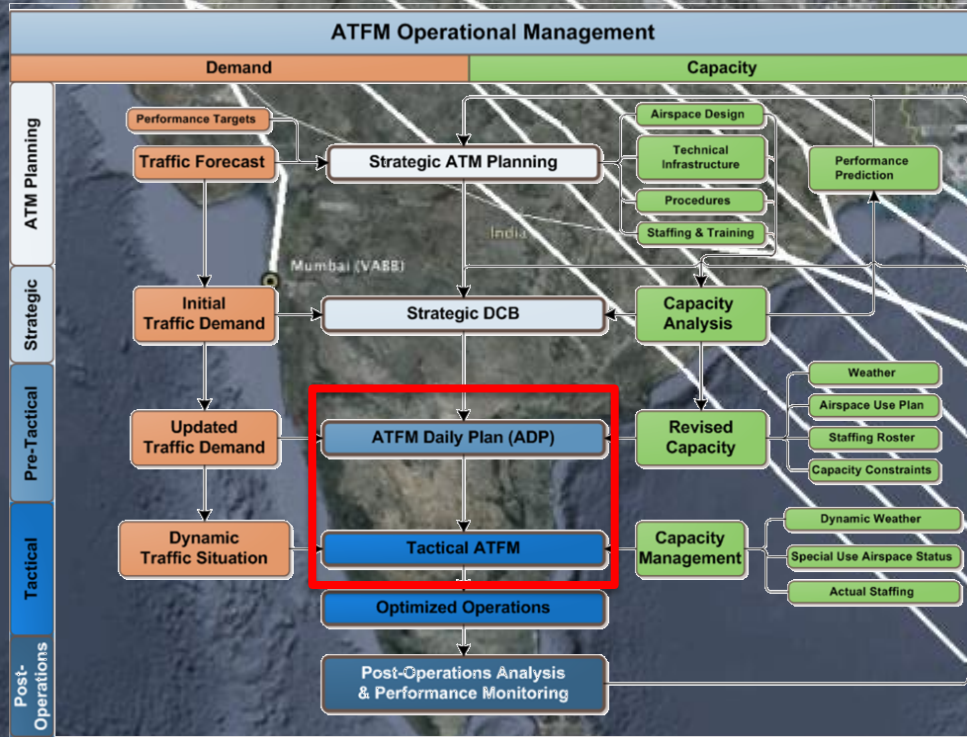
AEROTHAI ATFM Activities

- **ATFM Procedure using Bay of Bengal Cooperative ATFM System (BOBCAT)**
- **Cooperation with Thailand Slot Coordinator**
- **En Route ATFM Advisory**
- **Thailand Airport and Airspace Capacity Assessment**
- **Bangkok – Singapore – Hong Kong CDM/ATFM**
- **APEC ATM Emissions Reduction Project**
- **EU ASEAN Air Transport Integration Project (AATIP)**

Manual on Collaborative ATFM



ATFM Procedure using BOBCAT System



BOBCAT

26 Sep 2013

© 2011 Cnes/Spot Image
 US Dept of State Geographer
 Data SIO, NOAA, U.S. Navy, NGA, GEBCO
 © 2011 Europa Technologies

©2010 Google

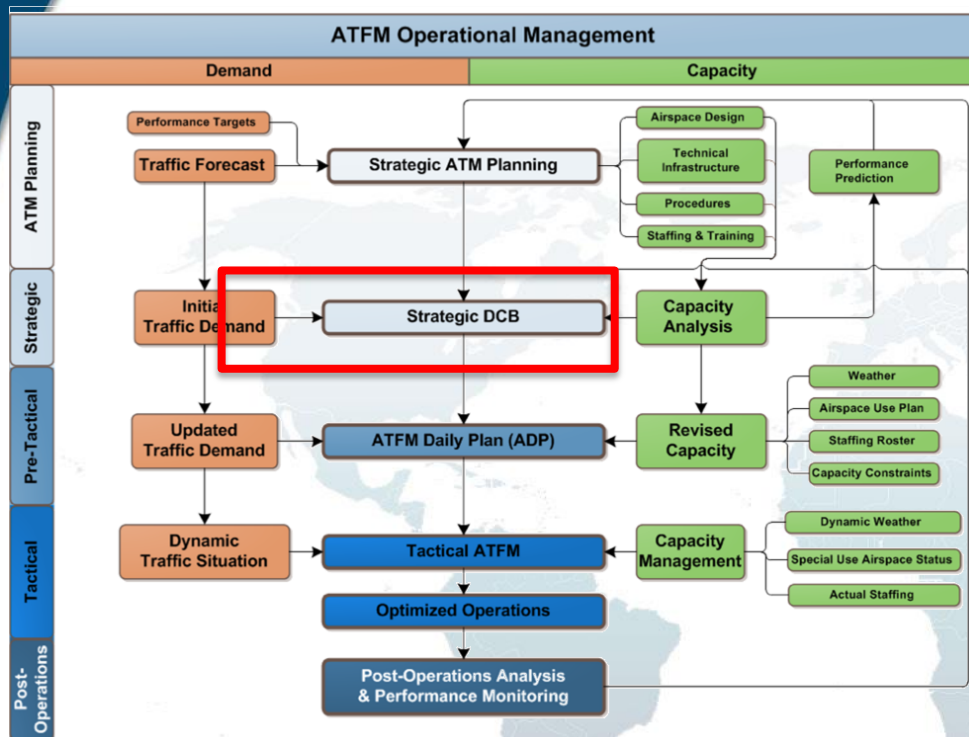
21°16'31.77" N 83°43'22.17" E elev 282 m

Eye alt 5121.36 km



Cooperation with Thailand Slot Coordinator

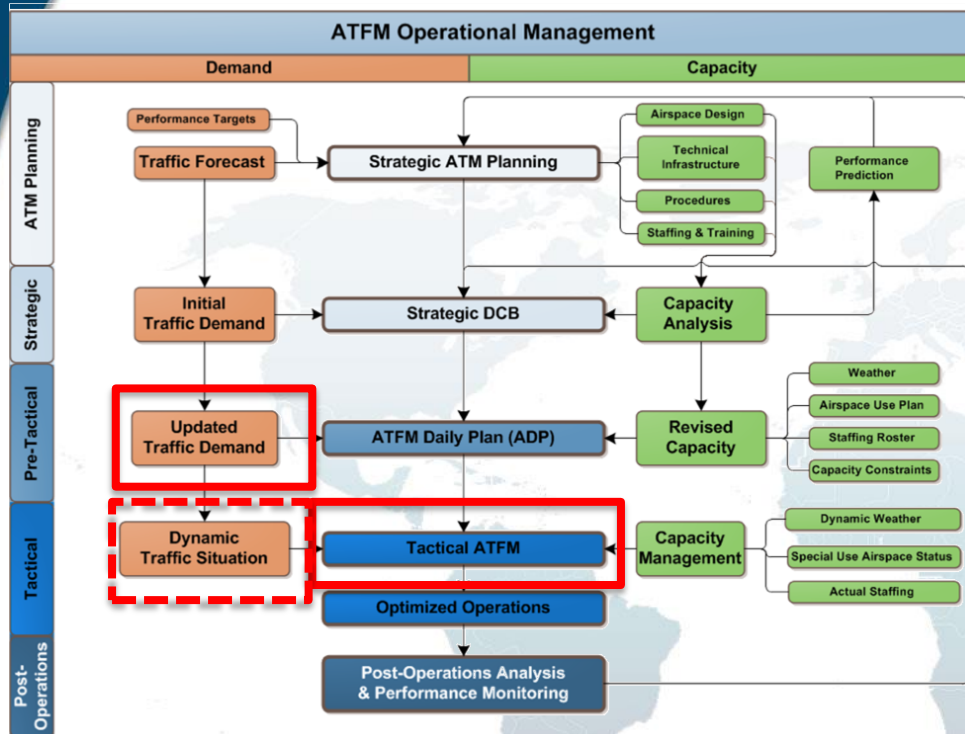
- **Process draft schedule for next season to look for airspace congestion**
 - Provide feedback to Slot Coordinator for further fine-tuning
- **Applicable due to presence of multiple slot coordinated airports**
 - Suvarnabhumi
 - Don Mueang
 - Phuket
 - Chiang Mai
 - Krabi
 - U-Tapao



Bangkok ACC

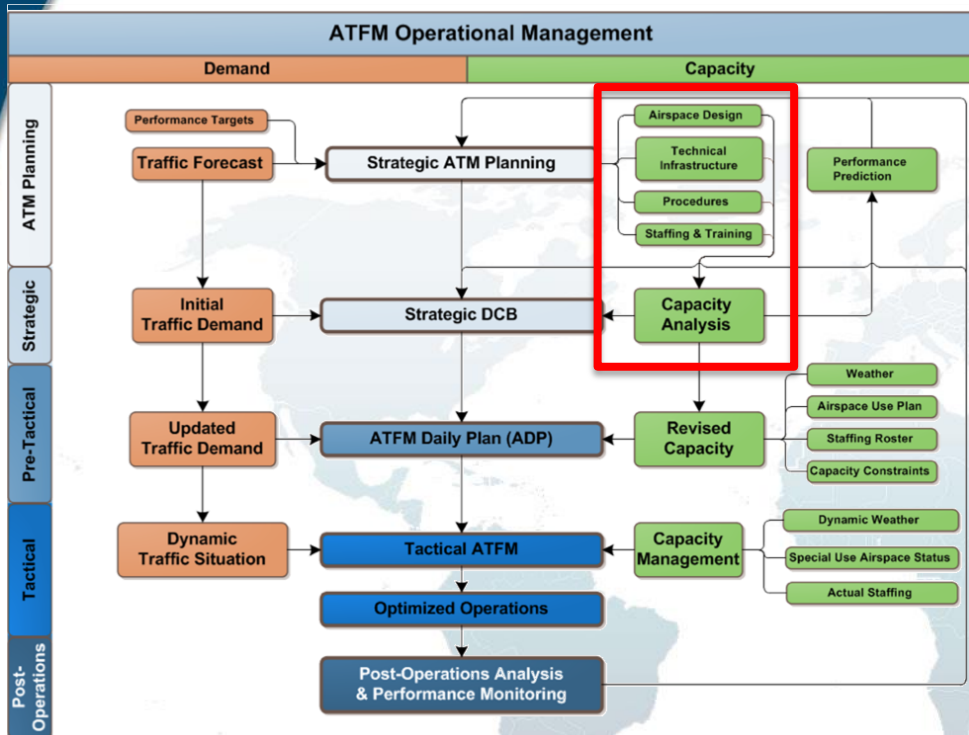
En Route ATFM Advisory

- **Bangkok ATFMU monitors known busy sectors in Bangkok ACC**
 - Traffic demand from FPL & ATS messages
 - “Static” capacity info
- **Provide ATFM Advisory to Bangkok ACC and relevant units**
 - Ground Delay Program
 - Minimum Departure Interval (MDI)





Thailand Airport & Airspace Capacity Assessment



■ Airport Capacity

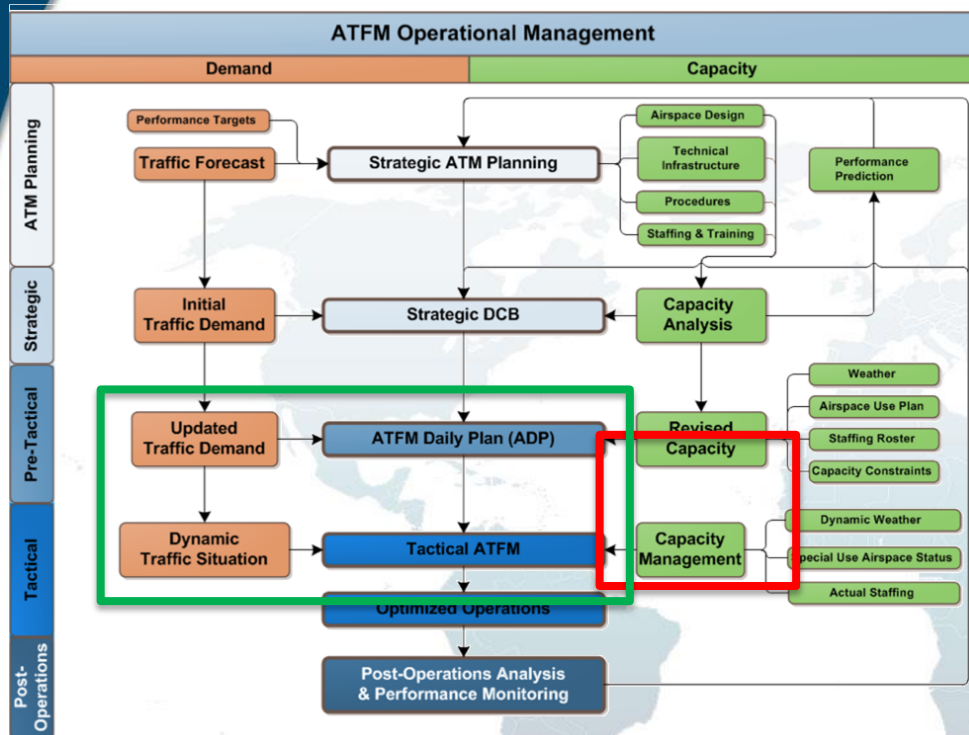
- Cooperation with AOT to review airport capacity
 - Phuket
 - Suvarnabhumi
 - Don Mueang

■ Airspace Capacity

- Review of capacity assessment in 2010 (LFV Aviation Consulting)
- Cooperate with EU ASEAN Air Transport Integration Project (AATIP) on capacity evaluation



Bangkok – Hong Kong – Singapore CDM/ATFM



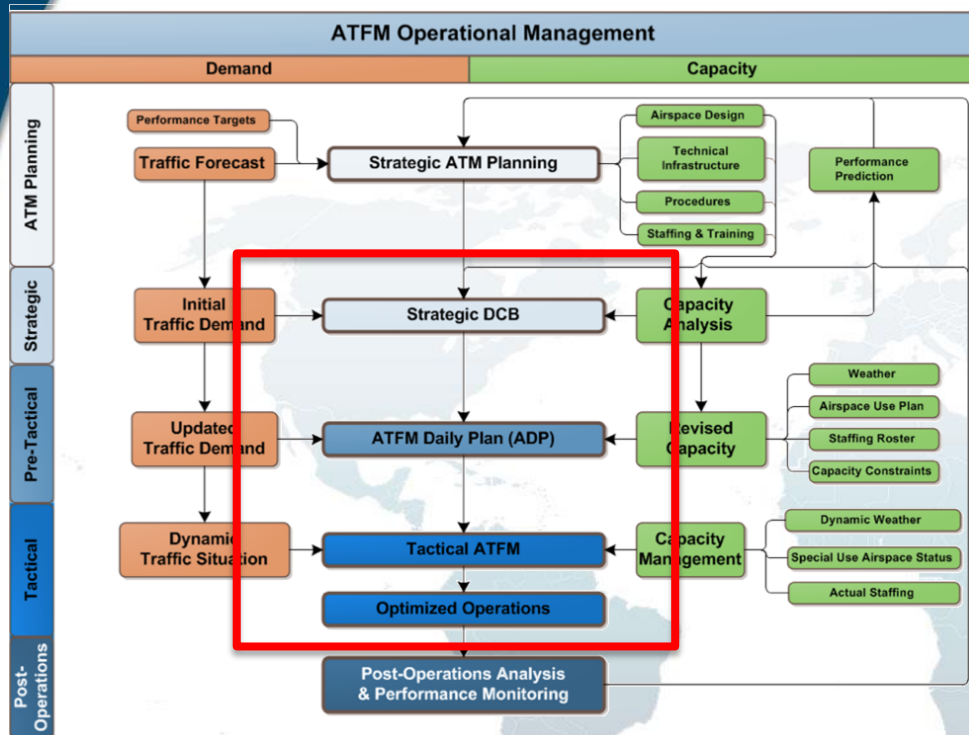
- **Short-Term: CDM Information Exchange**
 - Excel-based Information Sharing (twice daily)
 - Telephone conferences
 - Tactical capacity adjustment study
- **Medium-Term: CDM/ATFM Collaborative Concept**
 - Regional ATFM/CDM Concept Development – Metron Aviation (Airbus Pro Sky)
 - Distributed ATFM Information Exchange



APEC ATM Emissions Reduction Project

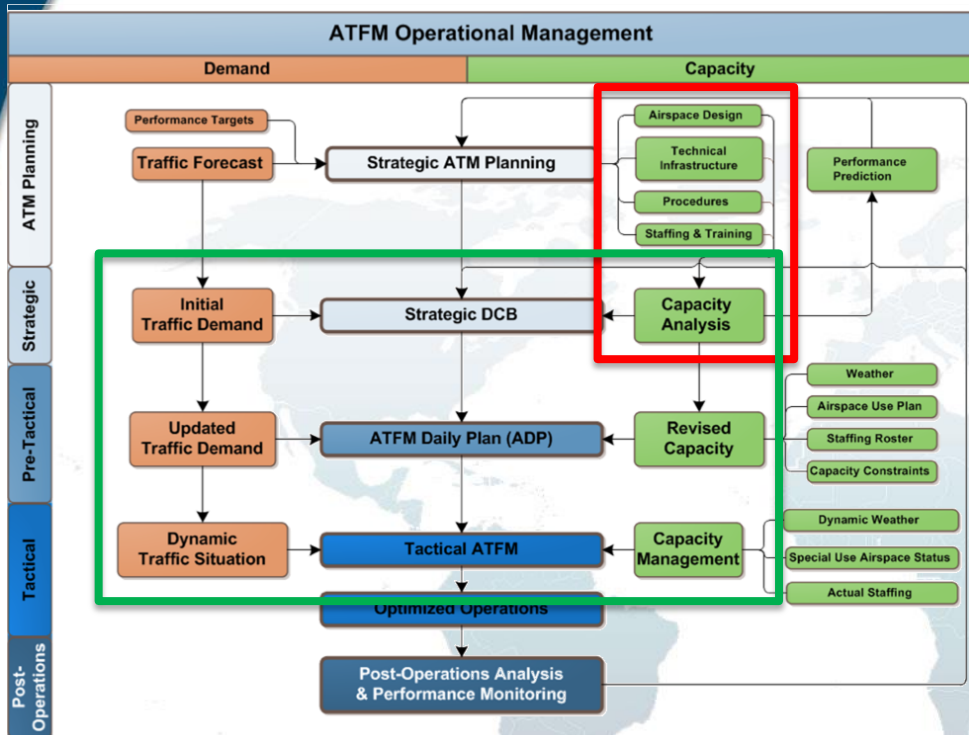
- **City Pair Study:**
 - Bangkok – Kuala Lumpur City Pair

- **Scope**
 - Economic and environmental benefits of CDM/ATFM
 - Pathway to CDM/ATFM implementation





EU ASEAN Air Transport Integration Project (AATIP)



- **Short-Term: Airspace Simulation and Modeling Workshops**
 - Airport Capacity Assessment
 - Airspace Capacity Assessment
- **Medium-Term: ASEAN Cross-Border ATFM**
 - ATFM Framework based on ICAO Doc 9971 (Manual on Collaborative ATFM)
 - Other ATM Infrastructure and Procedure Enhancements



DISCUSSIONS