

APEC TPT-WG41

TRANSPORTATION WORKING GROUP MEETING 41

26-29 MAY 2015



CNS/ATM Implementation in Chinese Taipei



Civil Aeronautics Administration,
MOTC, Chinese Taipei

2015/5/27

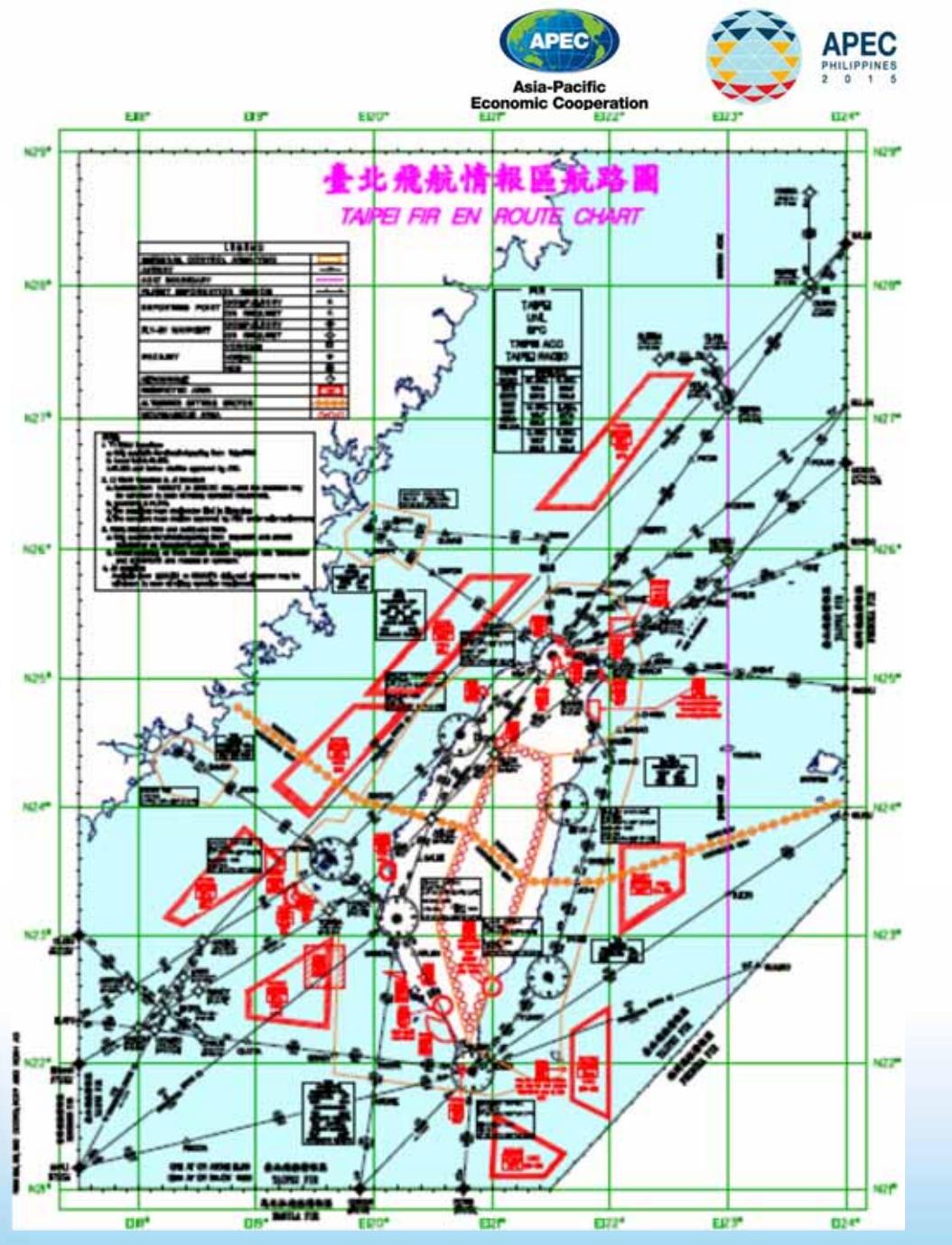
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Taipei FIR

- Adjoining FIR
 - Fukuoka
 - Manila
 - Hong Kong
 - Guangzhou
 - Shanghai



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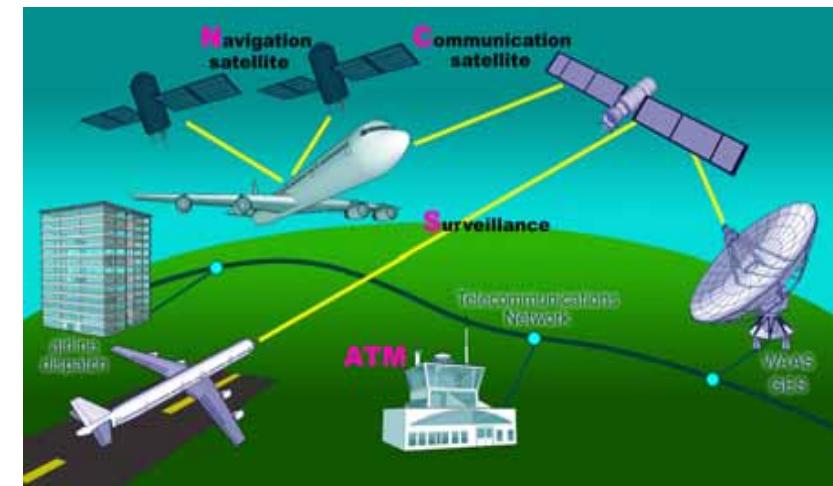
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CNS/ATM Project

- Schedule
 - 2002~2011
- Goal
 - Improve ATS
 - Enhance Safety, Capacity and Efficiency
 - Meet ICAO Global Harmonization Plan



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Scope of CNS/ATM Project

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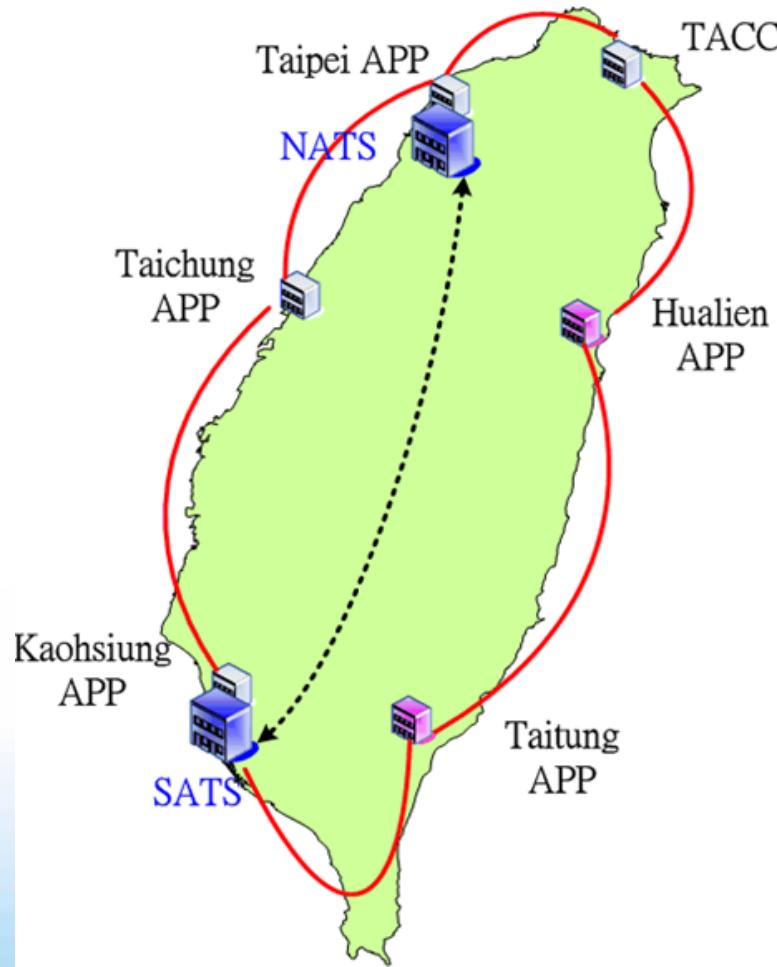
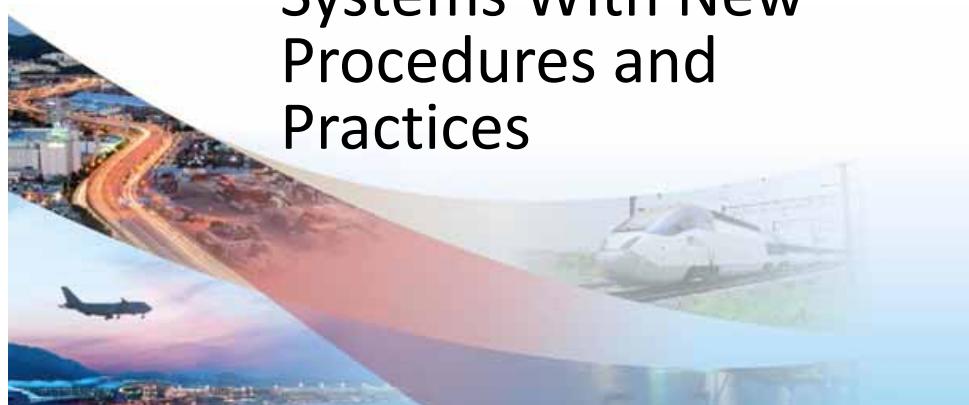
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ATC Operation Transition

- Complexity of Transition
 - Relocation of Personnel
 - Relocation of Equipment or Establishing New Links
 - Use of New ATM Systems With New Procedures and Practices



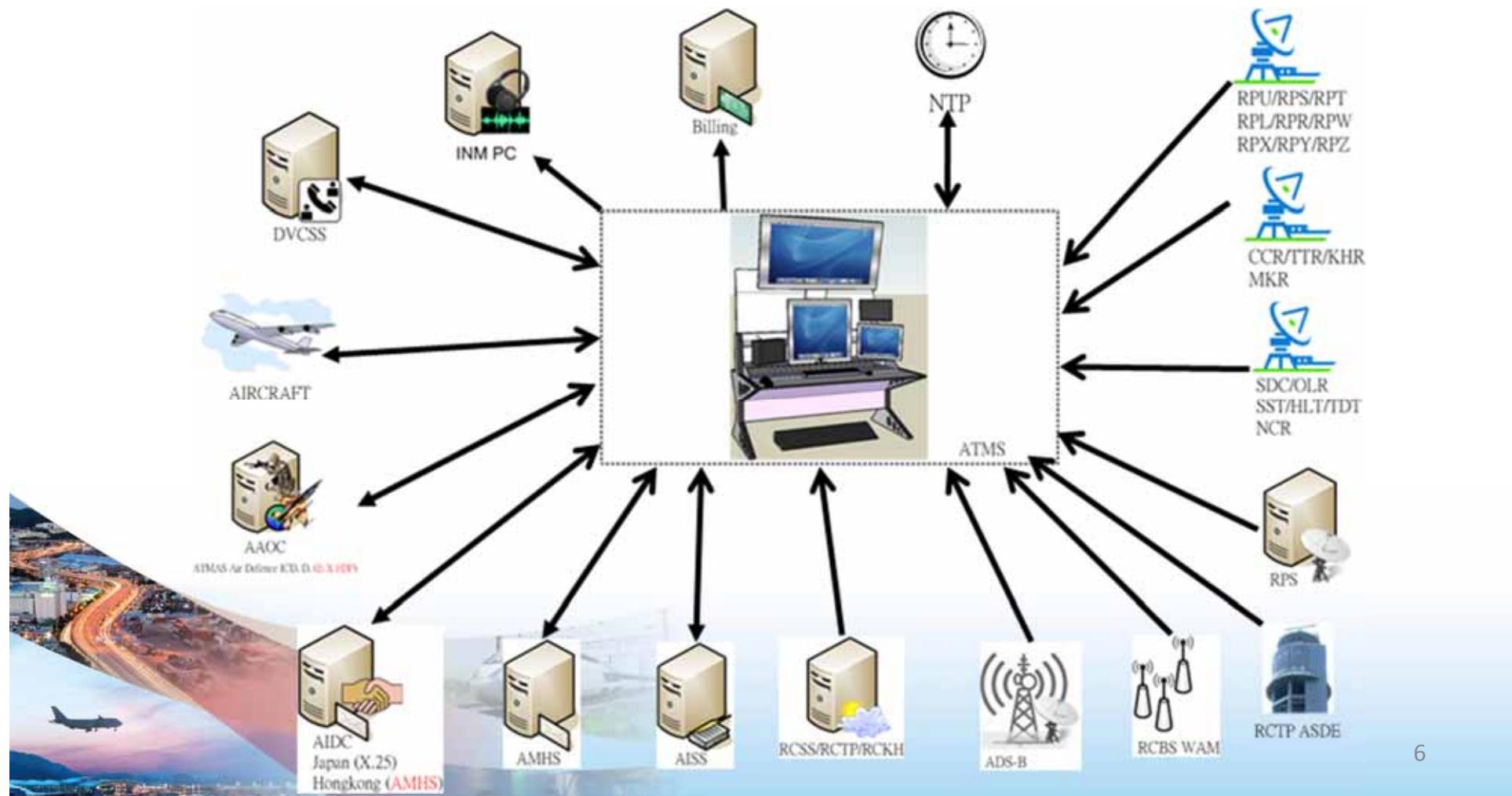
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ATM Interface



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Communication Implementation

- AIDC
 - 2012 Fukuoka & Hong Kong
 - 2013 Shanghai
 - 2014 Guangzhou
- DCL
 - 2014/11 RCTP
 - 2014/12 RCSS & RCKH
- CPDLC under Planning



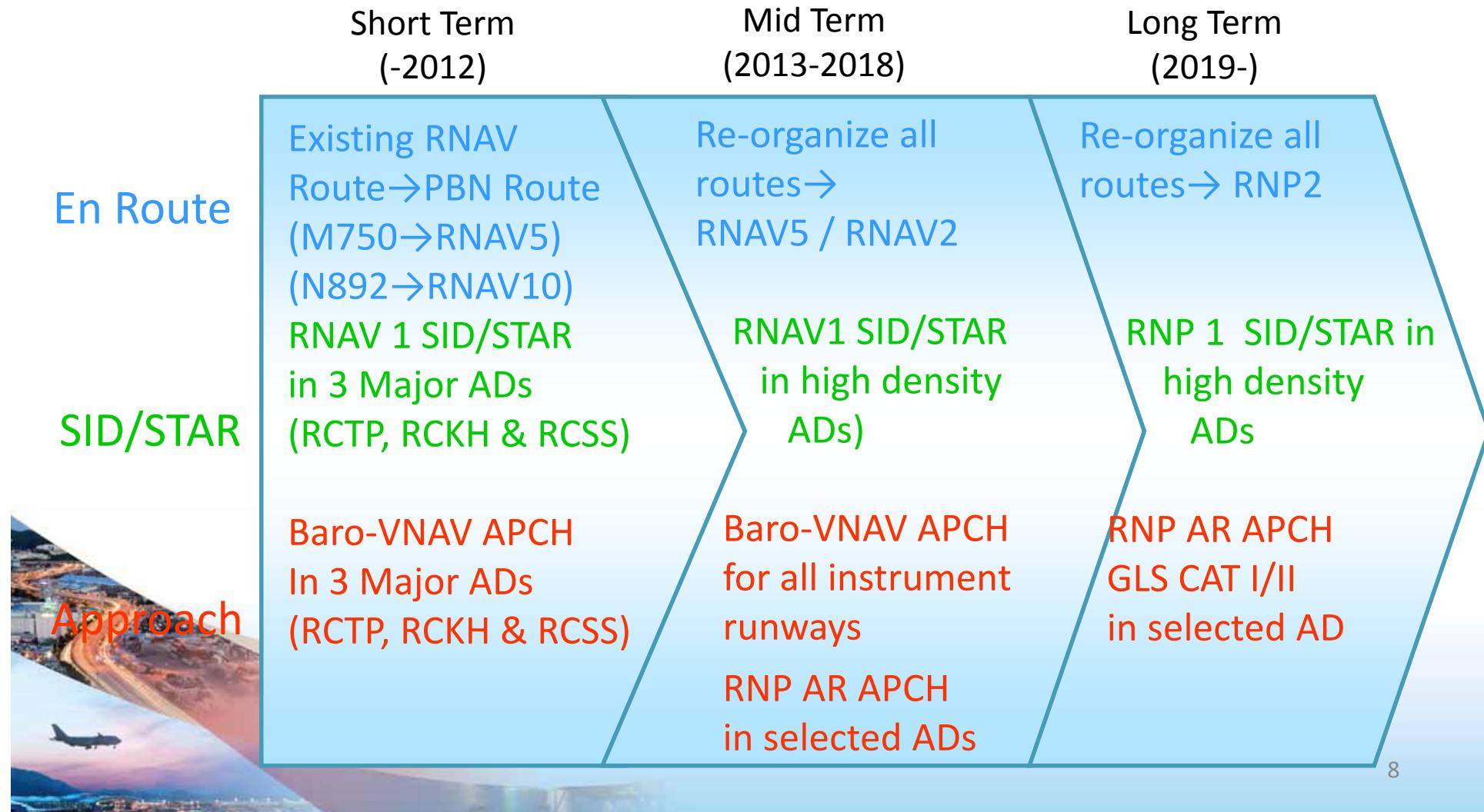
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Navigation Implementation



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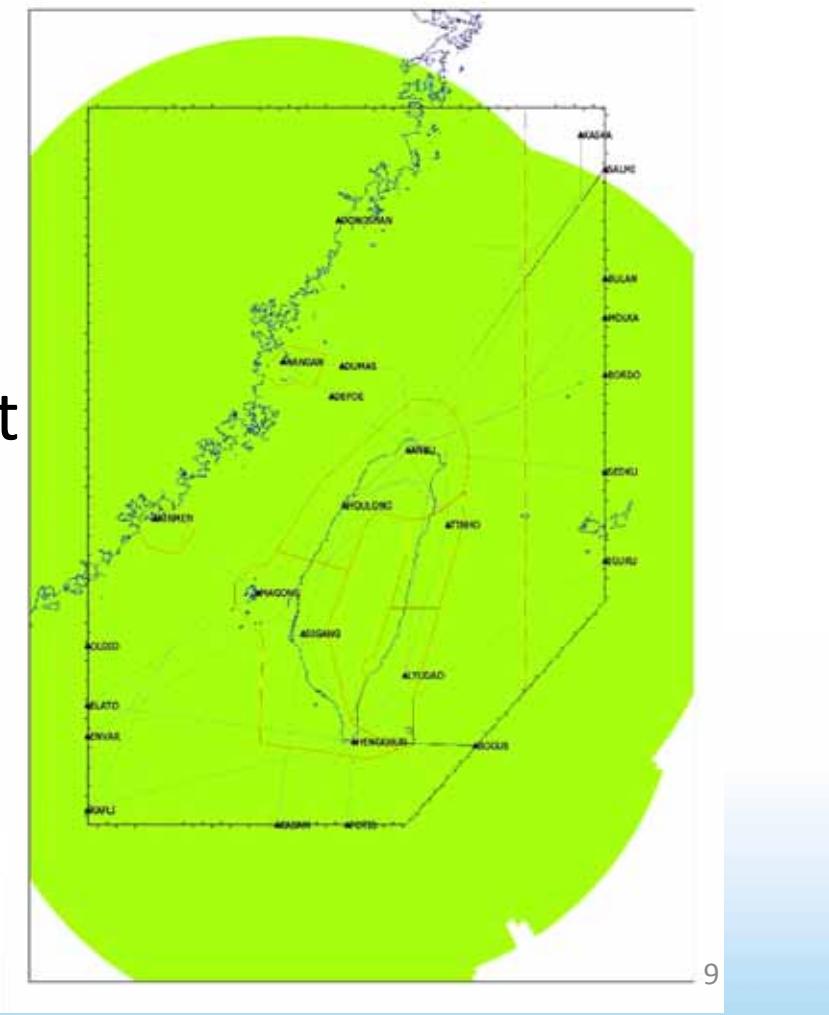
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Surveillance Implementation

- ADS-B
 - 2013/12/12
- Above 290 for 2 Routes
 - Not All Acft with ADS-B Out
 - ADS-B Out Required
 - When Radar OoS
 - 2016/12/31
 - Above 290 Within Taipei FIR



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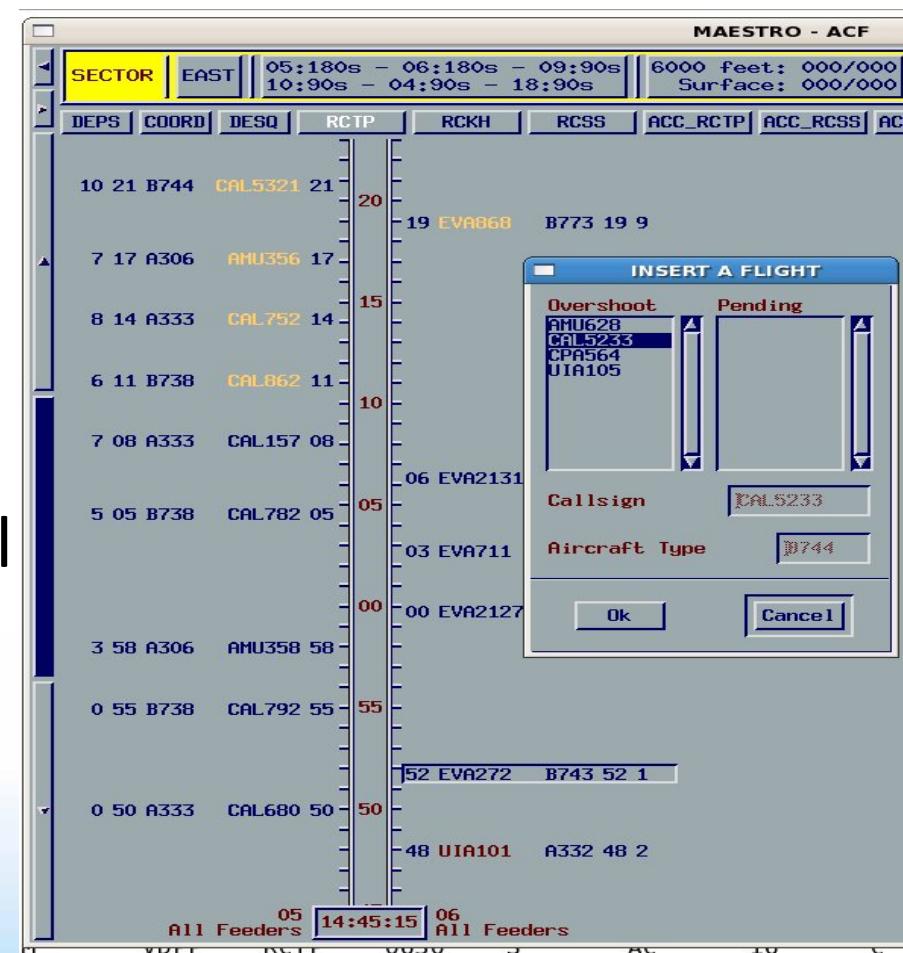
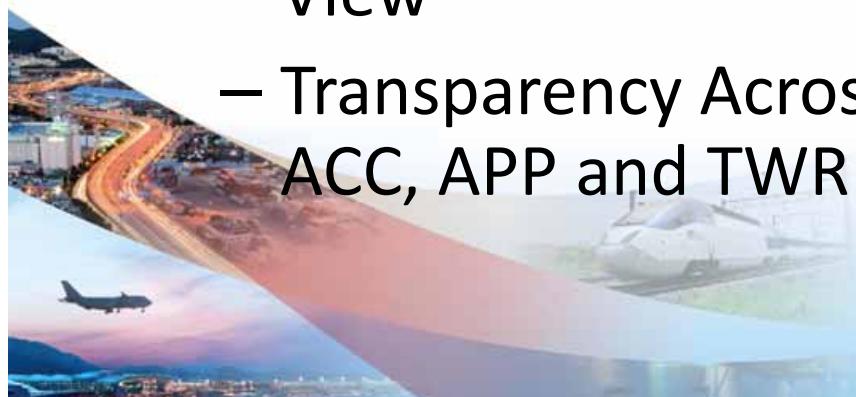
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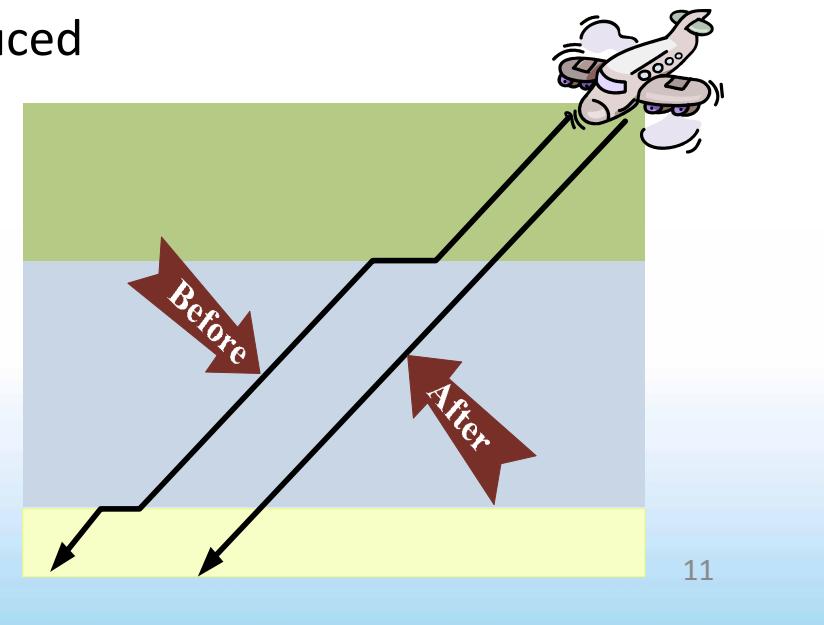
AMAN Tool for ATMS

- MAESTRO
 - Arrival Sequence Optimisation
 - Translating Geographical Situation to Temporal View
 - Transparency Across ACC, APP and TWR



Continuous Descent Operation (CDO)

- Trial
 - 3 Month since 2013/5 in TTIA
 - 0100~0700 Local time
 - Effect
 - 1,284,000 Pound Oil Reduced
 - 1,800 Ton Carbon Equivalent Reduced
- Formal Implementation
 - Since 2013/12/12 in TTIA
 - 0100~0700 Local time
- Future Planning
 - Expanding to 24 hours



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Aviation System Block Upgrades (ASBU)

- 4th GANP Approved
 - 2013 38th ICAO Assembly
- APSAP
 - 2013/6 Issued by ICAO A/P Office
 - ASBU Block 0 PIE Prioritized
 - 2013 to 2018
 - PARS & PASL Staged for Implementation
- Planning for Taipei FIR
 - APSAP/Regional Features



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The End
Thanks For Your Attention

