



民航處
CIVIL AVIATION
DEPARTMENT

Ground Delay Programme Operational Trials at HKIA

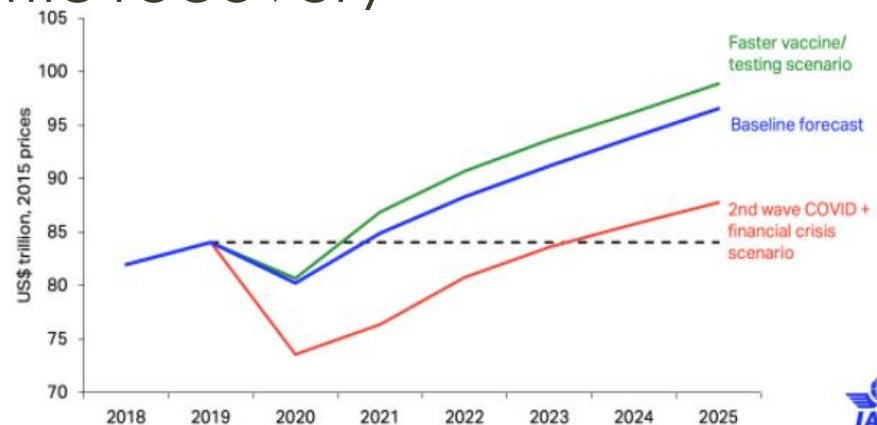
WP12

Hong Kong China

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Background

- Traffic downturn owing to the pandemic
 - ❖ Very low chance for ATFM measures
- Training and familiarization required
 - ❖ For HK ATFM unit personnel and regional partners (i.e. AMNAC & EATMCG) for cross-border ATFM
- To prepare for traffic recovery



Source: IATA Economics using data from Oxford Economics Q2 Global Scenarios Service



Details



- Starting from JAN 2021, **9** GDP operational trials
- HKIA Arrival from **9** ANSPs in APAC
- At most **2** GDP per month
- **210** flights subjected to GDP

Methodology

- CTOTs were distributed by
 - ❖ Emails
 - ❖ Slot Allocation Message (SAM)
 - ❖ HK ATFM website (www.atfmc.gov.hk)
- To minimize disruption to normal operation
 - ❖ **No delay CTOT** were issued
 - ❖ i.e. $CTOT = EOBT + STT$ (standard taxi time)
- Means of coordination
 - ❖ Cisco Webex, emails and phone



Demand Look-Ahead

- Flight Plan (FPL) Submission Lead Time
 - ❖ Requirement in HK AIP = **180 mins**
 - ❖ Average = **240 mins**
 - ❖ **0%** of the flights with lead time <60 mins
 - ❖ **7%** of the flights with lead time <120 mins
 - ❖ **24%** of the flights with lead time <180 mins
- Point to note:
 - ❖ No CTOT will be distributed for flights with no FPL
 - ❖ i.e. CTOT will not be distributed based on schedule data



Demand Accuracy



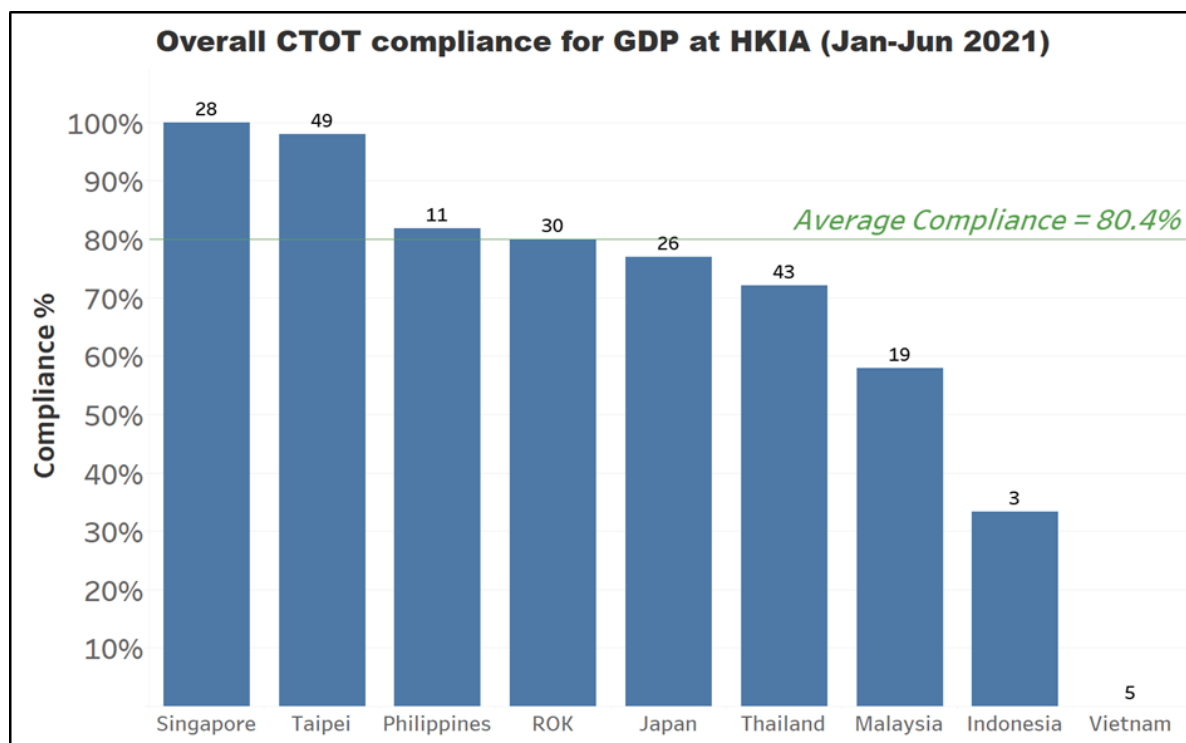
- Pre-tactical Demand Accuracy
- Average
 - ❖ ATOT & ETOT = **-1**(13) mins
 - ❖ ALDT & ELDT = **1**(15) mins
 - ❖ AET & EET = **-2**(6) mins
- The accuracy is good for traffic demand prediction

CTOT Delivery Time

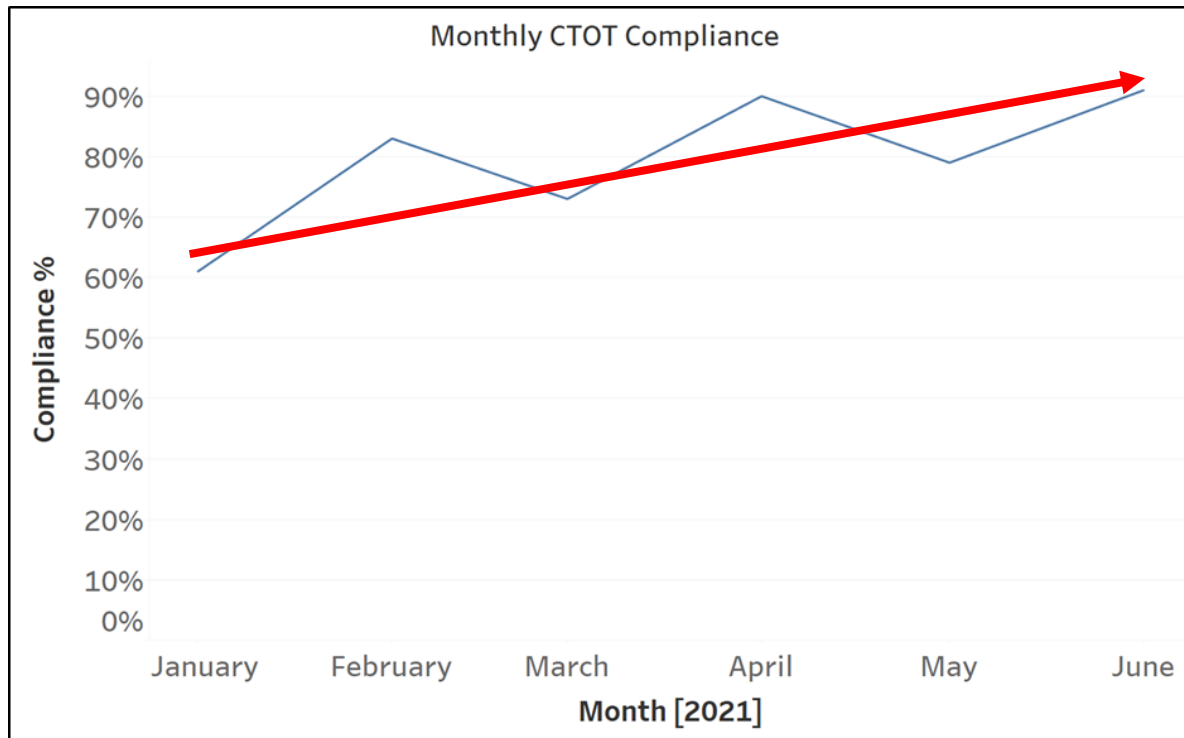


- CTOTs were sent in batches **every 30 mins** and usually **at least 90 mins prior to EOBT** of subject flights
- Average delivery lead time = **110 mins**
- Looking into the feasibility of squeezing the lead time to **at least 60 mins**

CTOT Compliance Assessment



Trend



Conclusion



- Operational trials proven to be an important activity
 - ❖ to validate concept and procedures
 - ❖ to maintain currency
 - ❖ To provide training opportunities
- Higher the compliance rate, the greater the benefit to the APAC network
- The operational trial is expected to continue until the end of 2021
- Thank you the effort of every participating states



Action by the meeting

- The meeting is invited to:
 - ❖ note the information contained in this paper;
 - ❖ continue supporting Hong Kong China's monthly GDP trials;
 - ❖ encourage members to make reference to Hong Kong China's initiative and share their experience; and
 - ❖ discuss any relevant matters as appropriate.