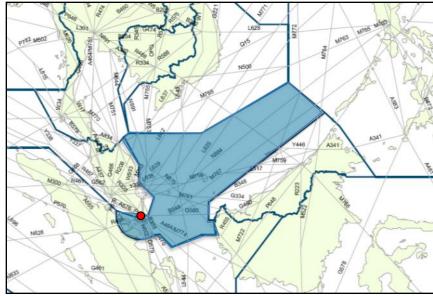
Why Cross-Border ATFM? A Singapore's Perspective

Hermizan Jumari

3 – 4 September 2015



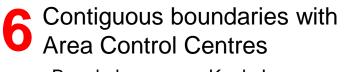
Air Traffic Management in Singapore



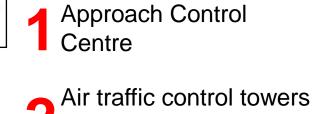
245,000 NM²

CAAS

(840,000 KM²)



- - Bangkok Kuala Lumpur Kota Kinabalu
- Ho Chi Minh Jakarta
 - Manila •



- Z · Changi
 - Seletar



662,000 (2014) **Total Movements** Changi - 341,400

Area Control Centre

7 En-route Sector

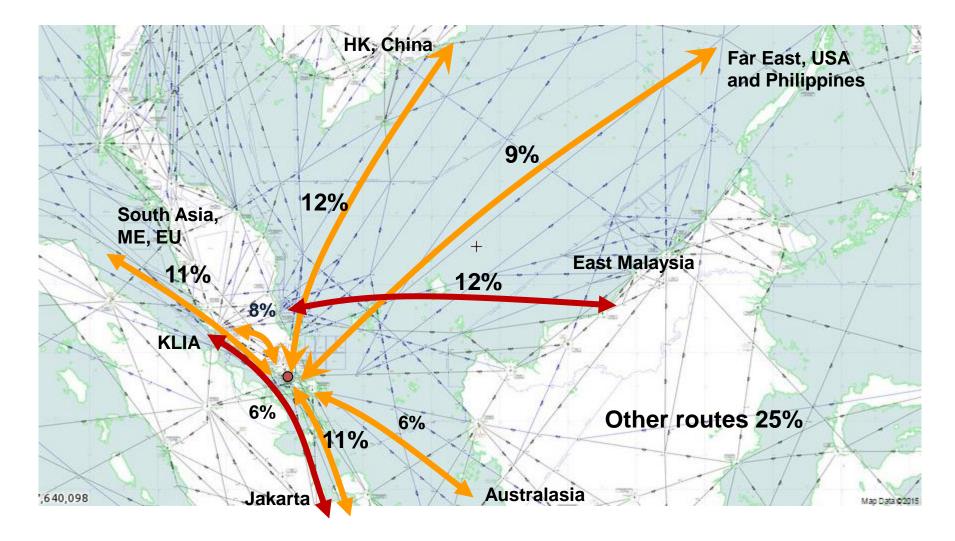
Over flights Changi 48% 52%





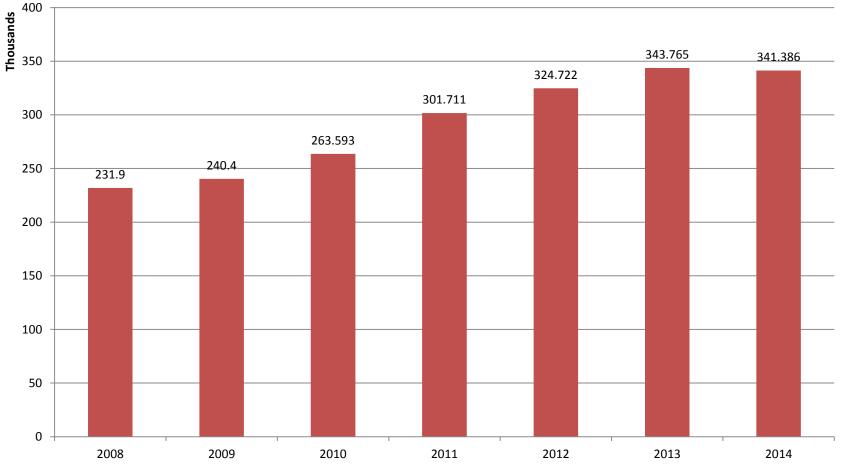


Major Traffic Flows in Singapore FIR



CAAS //

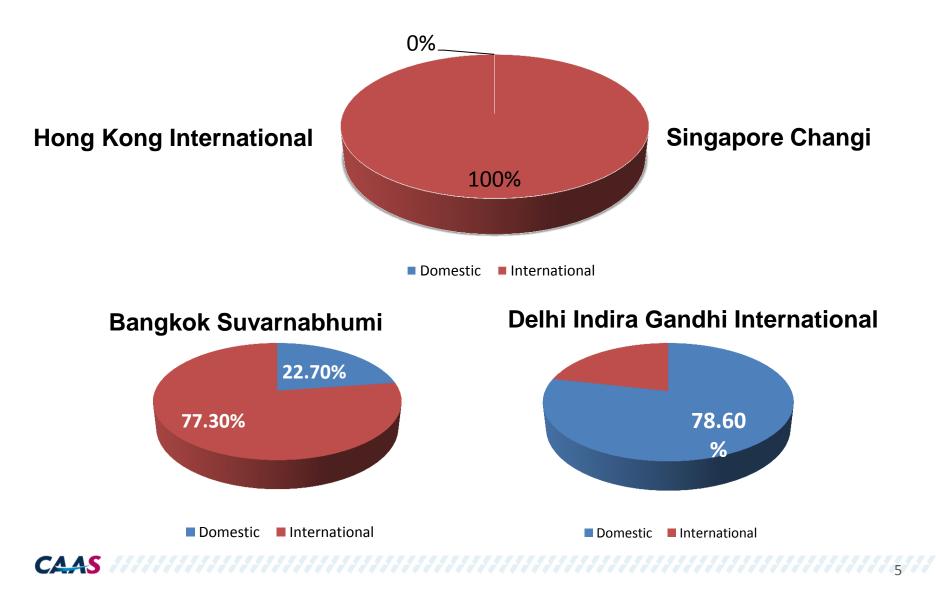
Air Traffic Volume at Changi



Source : Changi Airport Group through CAPA

CAAS

Composition of Air Traffic – Int'l vs Domestic



ATFM Around the World









How do we deal with these?







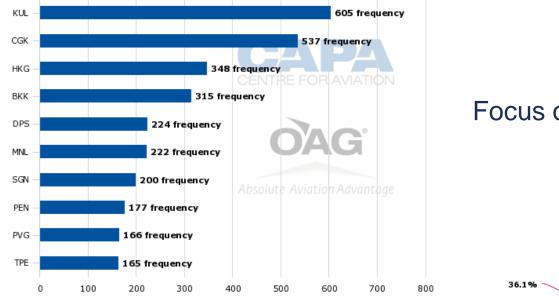
CAAS

ATFM Concept for the Region



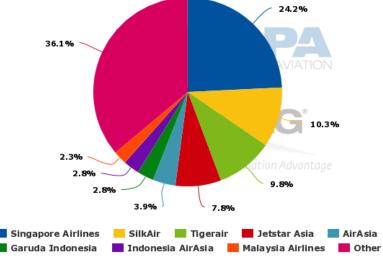


Managing International Flights at Changi



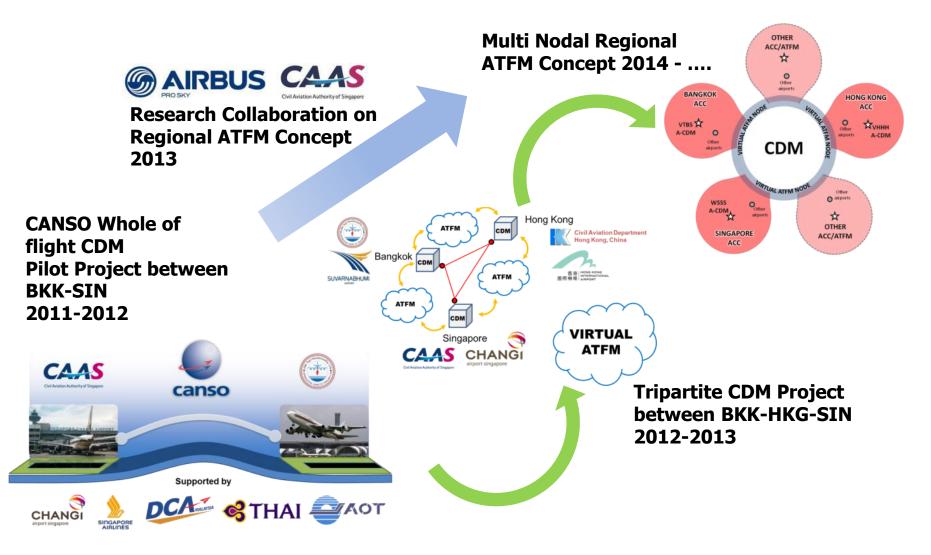
• Engaging local based carriers

Focus on major city pairs



9

Evolution of the Regional ATFM Concept



CAAS 10

Collaboration; Key to Cross-Border ATFM



CAAS

Photo credit: NATS UK