

51st CONFERENCE OF DIRECTORS GENERAL OF CIVIL AVIATION ASIA AND PACIFIC REGIONS

AIRSPACE OPTIMIZATION BY HONG KONG TO ACCOMMODATE PHENOMENAL AIR TRAFFIC GROWTH

Presented by Hong Kong, China

Growing Air Traffic Demand – Capacity by Region (May 2014)

			YTD			
%		YoY	ASK (billion)	%		YoY
1%		7.2%	993	33%	$\mathbf{\hat{n}}$	7.8%
8%	ᢙ	5.5%	784	26%	€	5.8%
4%	ᡎ	2.6%	745	24%		1.8%
9%		6.6%	283	9%		11.3%
5%	€	4.0%	166	5%	☆	3.5%
3%		3.3%	81	3%		4.0%
00%		5.2%	3,052	100 %		5.8%
00%	Ŷ		,			
19 89 49 9% 5% 3%	6		6	YoY (billion) 6 ↑ 7.2% 993 6 ↑ 5.5% 784 6 ↑ 2.6% 745 6 ↑ 6.6% 283 6 ↑ 4.0% 166 6 ↑ 3.3% 81 7 5.2% 3,052	YoY % 6 ↑ 7.2% 993 33% 6 ↑ 7.2% 993 33% 6 ↑ 5.5% 784 26% 6 ↑ 2.6% 745 24% 6 ↑ 6.6% 283 9% 6 ↑ 4.0% 166 5% 6 ↑ 3.3% 81 3% 7 5.2% 3,052 100%	YoY % (billion) % 7.2% 993 33% 1 7.2% 993 33% 1 6 7.2% 993 33% 1 6 1.5% 784 26% 1 6 1.6% 24% 1 1 6 1.6% 283 9% 1 7 4.0% 166 5% 1 7 3.3% 81 3% 1

Growing Air Traffic Demand – HKIA Movement (Monthly Ranking JUL 14)

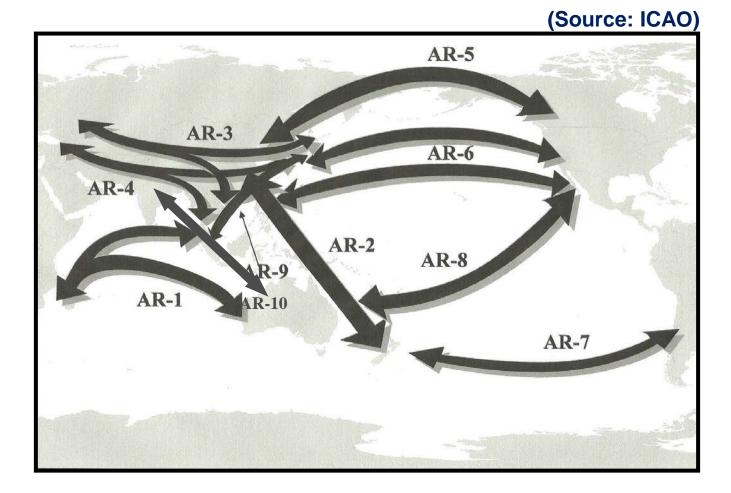
Aircraft Movements	(Source: ACI, updated	OCT 14)				
Landing and take-off of an aircraft						
	Total	%Chg				
1 CHICAGO IL, US (ORD)	83 017	2.3				
2 ATLANTA GA, US (ATL)	76 222	(5.6)				
3 DALLAS/FORT WORTH TX, US (DFW)	59 933	(0.3)				
4 LOS ANGELES CA, US (LAX)	57 997	2.8				
5 DENVER CO, US (DEN)	52 088	(1.5)				
6 BEIJING, CN (PEK)	50 085	3.3				
7 CHARLOTTE NC, US (CLT)	47 812	(0.6)				
8 LAS VEGAS NV, US (LAS)	45 876	0.8				
9 HOUSTON TX, US (IAH)	45 525	1.7				
10 PARIS, FR (CDG)	43 778	0.4				
11 FRANKFURT, DE (FRA)	42 841	(1.0)				
12 AMSTERDAM, NL (AMS)	42 426	2.5				
13 LONDON, GB (LHR)	41 674	0.5				
14 TORONTO ON, CA (YYZ)	39 952	1.9				
15 NEW YORK NY, US (JFK)	39 908	4.6				
16 SAN FRANCISCO CA, US (SFO)	38 660	5.5				
17 ISTANBUL, TR (IST)	38 368	6.2				
18 MINNEAPOLIS MN, US (MSP)	37 672	(5.9)				
19 PHILADELPHIA PA, US (PHL)	36 991	(2.8)				
20 PHOENIX AZ, US (PHX)	36 880	(0.7)				
21 TOKYO, JP (HND)	36 792	5.2				
22 NEWARK NJ, US (EWR)	36 108	(0.2)				
23 MEXICO CITY, MX (MEX)	35 972	6.7				
24 GUANGZHOU, CN (CAN)	35 767	3.7				
25 SHANGHAI, CN (PVG)	35 613	7.7				
26 BOSTON MA, US (BOS)	35 234	1.3				
27 DETROIT MI, US (DTW)	35 154	(9.7)				
28 HONG KONG, HK (HKG)	34 360	4.0				
29 MUNICH, DE (MUC)	34 205	(1.2)				
30 ANCHORAGE AK, US (ANC)	34 057	(0.2)				
Airports participating in the ACI Monthly Traffi	c Statistics Collection. Results are	e preliminary.				

Growing Air Traffic Demand – Overflight Transiting HK FIR

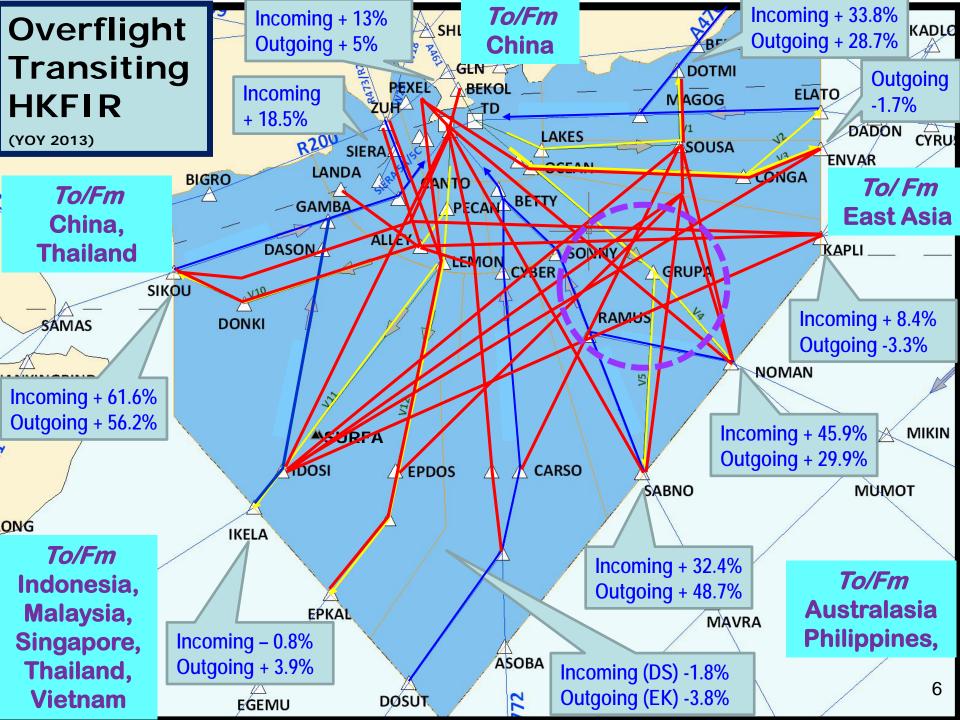
HKSARG	Overflight	S	Total Overflight
Financial Year	OVF (Excluded MCU)	MCU	Total Overnight
2010/11	130760 (+19.4%)	36533	167293 (+14.8%)
2011/12	150986 (+15.5%)	39913	190899 (+14.1%)
2012/13	162710 (+7.8%)	44749	207459 (+8.7%)
2013/14	173476 (+6.6%)	50299	223775 (+7.9%)



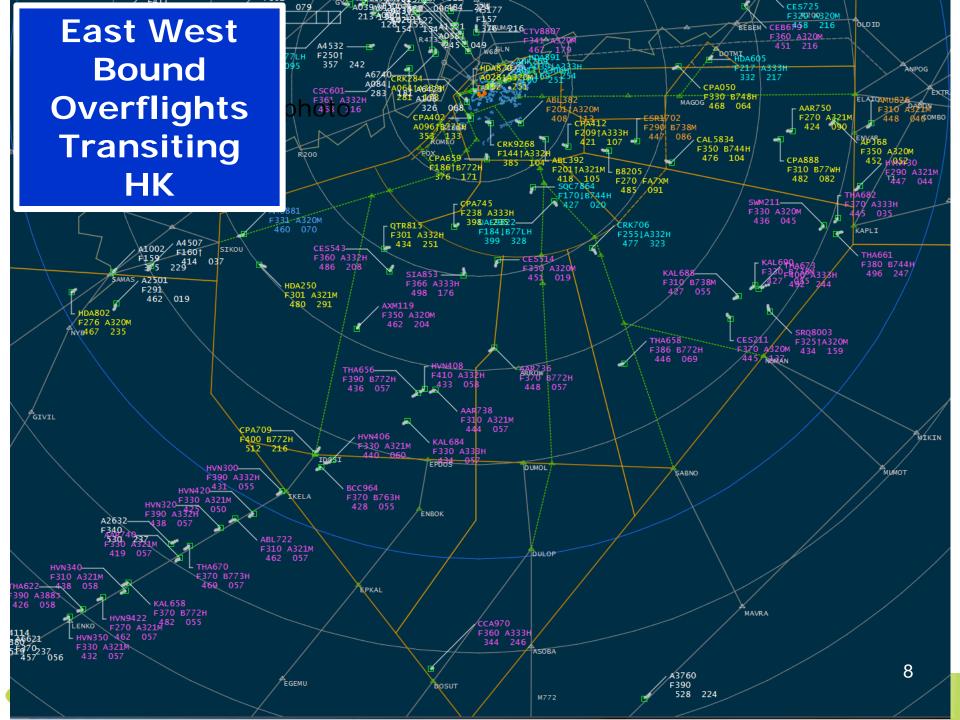
Major Traffic Flows

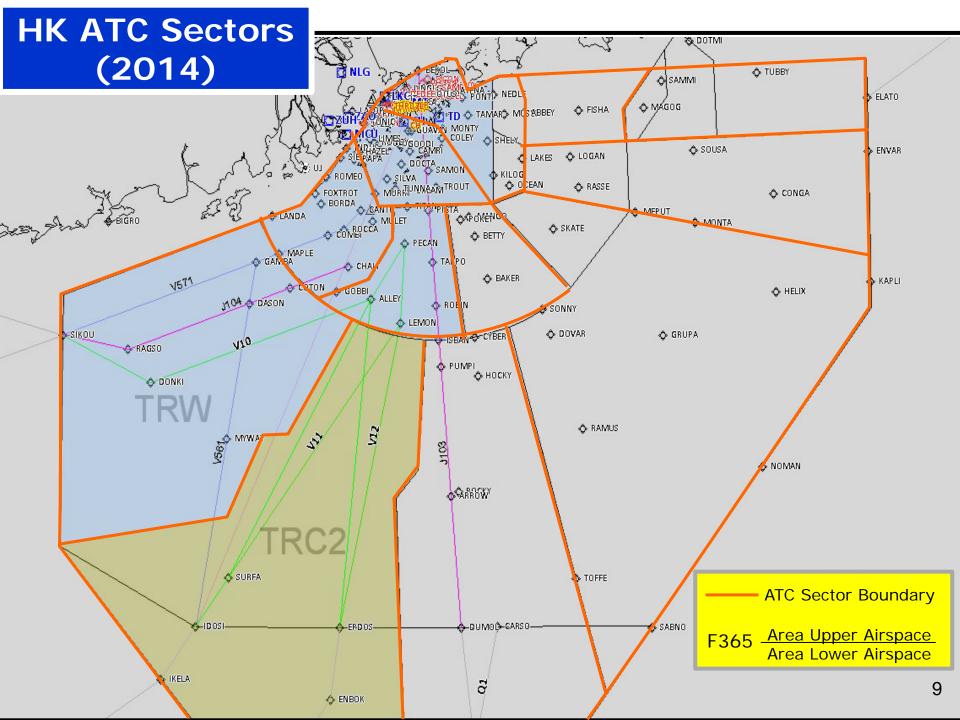






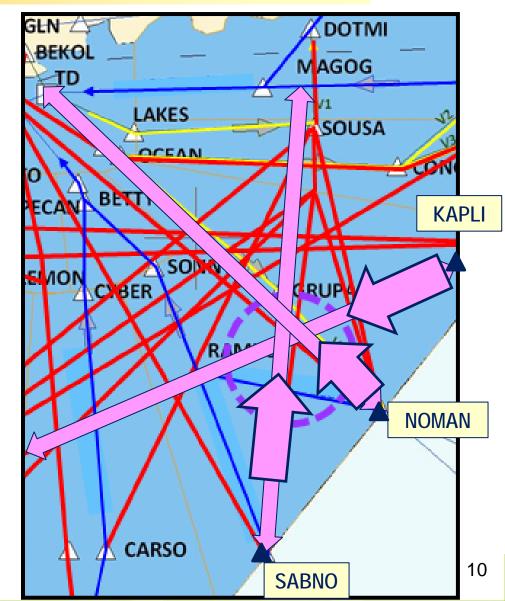






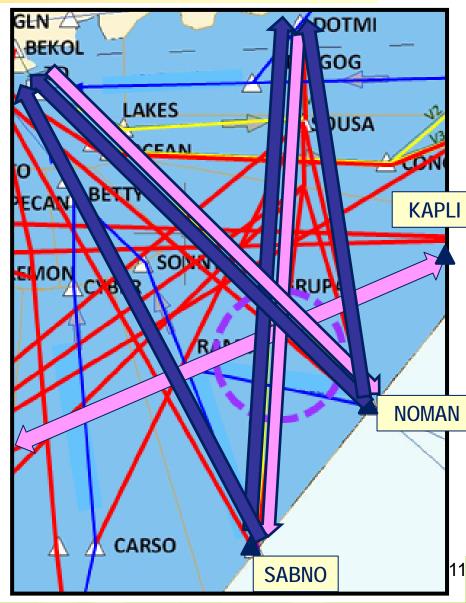
Airspace Optimization Initiative -Rationalizing Overflight Routes

- Bidirectional tracks
- Traffic from KAPLI, NOMAN & SABNO are at the same FLOS / FLAS
- Require LVL adjustment before leaving HK via BEKOL or DOTMI
- Very short response time from FIR boundary to potential conflict point
- Safety implication



Airspace Optimization Initiative – Rationalizing Overflight Routes

- Remove OVF track
 - SABNO / DOTMI
 - > NOMAN / BEKOL
- Outcome
 - Reduce potential conflicts
 - Optimize airspace capacity
 - Ensure safe operation



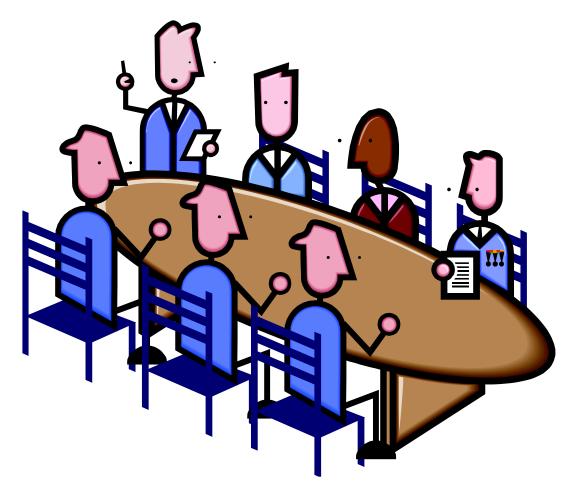


Airspace Optimization Initiative – Support the Establishment of Major Traffic Flow Review Group

- Decision SAIOACG4/SEACG21 2
- Review the overall traffic flow of overflight in the region.
 - > Air routes
 - Suitability of FLOS / FLAS
- Goal Enhance flight safety in APAC in the long term
- ➤ 1st meeting DEC 14 to FEB 15 timeframe tentatively.



Collaboration, Coordination & Visionary



Thank You



