60th Anniversary of ICAO Asia and Pacific Office

A Blueprint on the Aviation Development in Hong Kong

Civil Aviation Department
Hong Kong, China
July 2009
Outline

• Sustained Economic Growth
  – Economic Outlook up to 2025
  – Key Indicators of Aviation Activities in Hong Kong

• Charting the Future of Aviation Development in Hong Kong

• CAD Vision
Medium-Term Economic Outlook

World GDP Annual Growth
2009: 1.8%
2010: 3.4%
Medium-Term Traffic Forecast

Asia Pacific Region

2009: 1.0% (vs World 0.9%)
2010: 7.0% (vs World 5.1%)

*Growth in airline passenger traffic measured in terms of passenger kilometres performed
Sustained Economic Growth

• Air transport plays an important role in global and regional economic development
  – Facilitate trade and investment
  – Promote tourism
  – Bring people together
  – Create 32 million jobs globally

• Major economic benefits to Hong Kong
  – Direct value-added by air transport services
  – Indirect benefits on trading, logistics, tourism sectors through multiplier effects
Growth of Civil Aviation in Hong Kong

- **Air Cargo Throughput**: 8.3%
- **Passenger Throughput**: 5.7%
- **Aircraft Movement**: 6.3%

Volume of Activities

## Projection of Traffic at the Hong Kong International Airport

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Passenger Throughput</strong></td>
<td>47.2 million</td>
<td>80 million</td>
</tr>
<tr>
<td><strong>Cargo Throughput</strong></td>
<td>3.6 million tonnes</td>
<td>8 million tonnes</td>
</tr>
<tr>
<td><strong>Aircraft Movements</strong></td>
<td>301,000+</td>
<td>490,000</td>
</tr>
</tbody>
</table>
Charting the Future of Aviation Development in Hong Kong Under Sustained Growth

• Striving for service excellence by
  – Enhancing aviation safety and security
  – Strengthening regional co-operation

• Satisfying aviation growth through
  – Utilizing technological innovation
  – Creating a sustainable environment for aviation
Enhancing Aviation Safety and Security

- Our No. 1 Priority – Safety and Security
- The aviation community in Hong Kong, China
  - has been observing and will continue to observe all international standards
  - had received favourable comments from ICAO auditors in USAP (2008) and USOAP (2009)
  - will continue to facilitate, as far as practicable, additional aviation security requirements as may be imposed by other authorities
Charting the Future of Aviation Development in Hong Kong Under Sustained Growth

- Striving for service excellence by
  - Enhancing aviation safety and security
  - Strengthening regional co-operation

- Satisfying aviation growth through
  - Utilizing technological innovation
  - Creating a sustainable environment for aviation
Regional Co-operation

• Serve as one of the founding members of COSCAP-SEA, CASP-AP and CAPSCA since early 2000s
  – Annual cash contribution
  – In-kind contribution of over USD 226,000 through co-organization of safety events
  – Manpower contribution being planned

• Remain committed to work under ICAO guidance to promote aviation safety and security for the region
Events Hosted in Consultation with ICAO Asia and Pacific Office

• 2004 – 41st Conference of DGCA

• 2005 – Asia Pacific Regional Seminar on Facilitation

• 2006
  – COSCAP-SEA Steering Committee Meeting
  – Aviation Language Proficiency Seminar

• 2007
  – ATN Co-ordination Group Meeting
  – ICAO 1st SMS Training Course
  – Regional Symposium on MPL Implementation
  – CAPSCA Steering Committee Meeting
Civil Aviation Department

Promoting Aviation Safety with ICAO Asia and Pacific Office

- 2008
  - ICAO 2nd SMS Training Course
  - Regional Seminar on USOAP Audit Preparation
  - ICAO Search and Rescue Seminar
  - PBN Procedure Design Course
- 2009
  - CASP-AP Steering Committee Meeting
  - CASP-AP Aviation Security Roadmap Seminar
  - ICAO Seminar on Aerodrome Certification
- 2010
  - Asia COSCAPs Conference
- 2014
  - 51st Conference of DGCA
Regional Co-operation

• All these joint efforts under the umbrella of regional co-operation will help:

**Hong Kong, China is fully supportive to all these regional endeavours**

– Facilitate harmonization of regulatory policies and procedures

– Promote mutual recognition of aviation services and licensing standards
Charting the Future of Aviation Development in Hong Kong Under Sustained Growth

- Striving for service excellence by
  - Enhancing aviation safety and security
  - Strengthening regional co-operation
- Satisfying aviation growth through
  - Utilizing technological innovation
  - Creating a sustainable environment for aviation
CAD’s Role

• Regulator to exercise safety and security oversight on aviation activities

• Service provider for safe and efficient air traffic management services

• Investigator of aircraft accident
Utilizing Technological Innovation

• Latest and forthcoming CNS/ATM implementation for enhancement of air traffic service
  – D-ATIS / D-VOLMET
  – Two-way PDC
  – Hong Kong-Sanya AIDC
  – A-SMGCS
  – ATN and AMHS (by 2009)
  – ADS-B

• Performance Based Navigation
  – Improved airspace capacity
  – More precise TMA procedures
  – Saving of fuel and reduction of emissions
Charting the Future of Aviation Development in Hong Kong Under Sustained Growth

- Striving for service excellence by
  - Enhancing aviation safety and security
  - Strengthening regional co-operation

- Satisfying aviation growth through
  - Utilizing technological innovation
  - Creating a sustainable environment for aviation
Creating a Sustainable Environment

- Achieving sustainable aviation development in Hong Kong by
  - Relieving airspace congestion
  - Strengthening human resources
  - Enhancing aviation infrastructure
  - Promoting environmental awareness
Airspace Congestion

- The daily movement rate for PRD expected to increase from 2,000 (at present) to 5,000 by 2020.

- 5 airports in Pearl River Delta (PRD).

- Runway orientation of these airport almost perpendicular to each other causing heavy confliction on flight paths.

- Different altimetry (metric system in Mainland and imperial system in Hong Kong) introduces complexities to operation.
Problem Solving

• CAD Hong Kong is working closely with our counterparts in Mainland China and Macao.

• Plans including airspace re-configuration and rationalization of procedures for improvement of ATM over PRD are being explored.

• Long term objective is to ensure that the system is compatible with the air transport demand and development of PRD.
Enhancing Aviation Infrastructure

- Study of Third Runway
- More Parking Stands
- More Aircraft Maintenance Hangar
- More Business Aviation Facilities
- New Air Cargo Terminal
New CAD Building

• Replace existing ATC system to enhance air traffic processing capability
  – Existing ATC system designed in 1990s and approaching its full design capacity

• House all CAD staff under one single roof
  – Enhance operational efficiency

• Provide dedicated building, facilities and equipment for aircraft accident investigation
ATC Infrastructure

To be moved to New CAD Building
民航處
Civil Aviation Department
Civil Aviation Department
CAD is ready for embracing new challenges

☑ Striving for service excellence by
  ☑ Enhancing aviation safety and security
    ➢ No. 1 Priority of CAD
  ☑ Strengthening regional co-operation
    ➢ Fully supported by Hong Kong, China

☑ Satisfying aviation growth through
  ☑ Utilizing technological innovation
    ➢ CNS/ATM and PBN
  ☑ Creating a sustainable environment
    ➢ Personnel / Procedures / Infrastructure
CAD Vision

Committed to a Safe and Efficient Air Transport System