





### 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

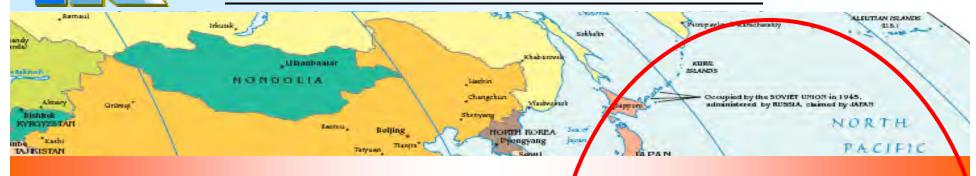


## World GDP Annual Growth 2009: 1.8%

2010: 3.4%







# Asia Pacific Region 2009: 1.0% (vs World 0.9%) 2010: 7.0% (vs World 5.1%)



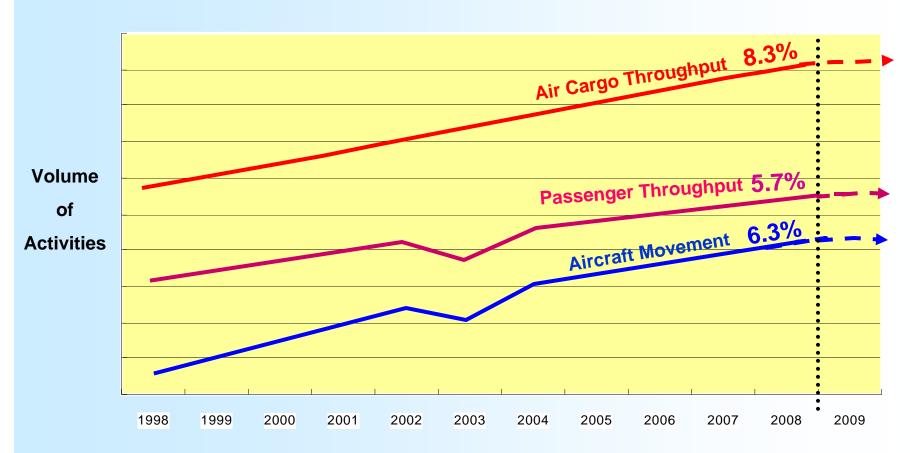


### Sustained Economic Growth

- 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



### Projection of Traffic at the Hong Kong International Airport

	2008	2025
Passenger Throughput	47.2 million	80 million
Cargo Throughput	3.6 million tonnes	8 million tonnes
Aircraft Movements	301,000+	490,000

## 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 <u>sustainable environment</u> 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

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### 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



### 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





- Enhancing aviation safety and security
- Strengthening regional co-operation
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### CAD's Role

 Regulator to exercise safety and security oversight on aviation activities

Service provider for safe and efficient air traffic management services

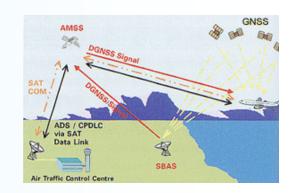
Investigator of aircraft accident





### **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<sup>17</sup>

## Charting the Future of Aviation Development in Hong Kong Under Sustained Growth

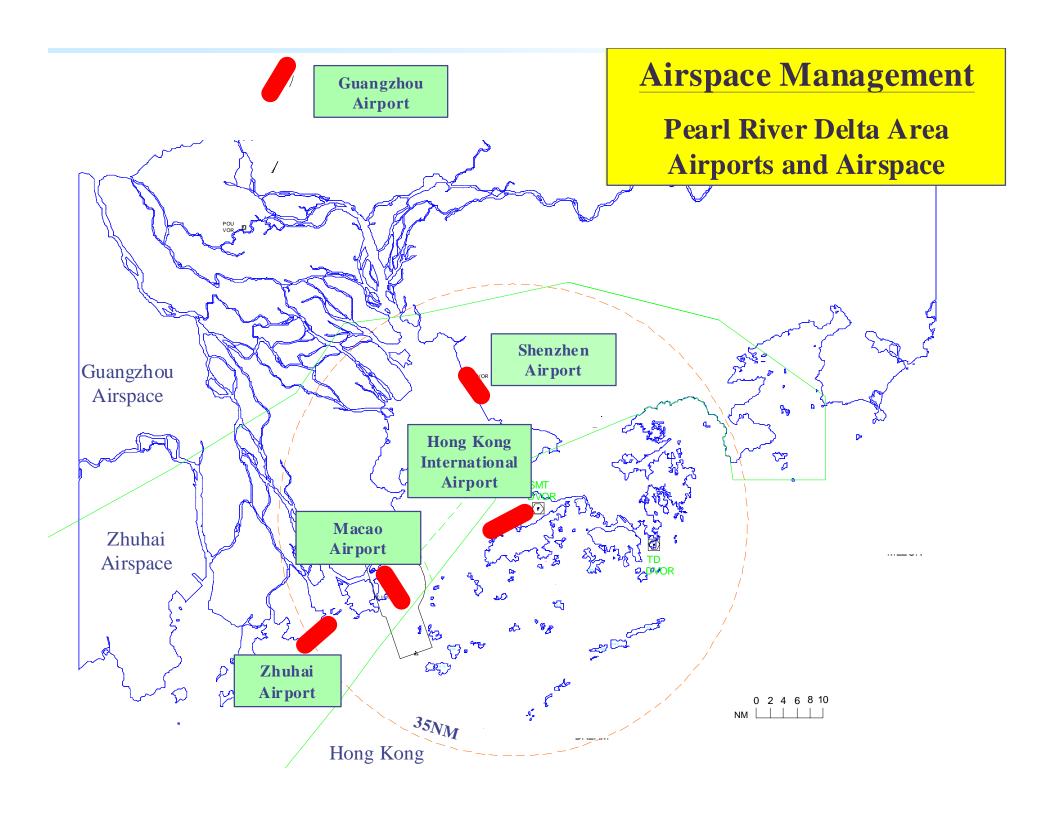
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### Creating a Sustainable Environment

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







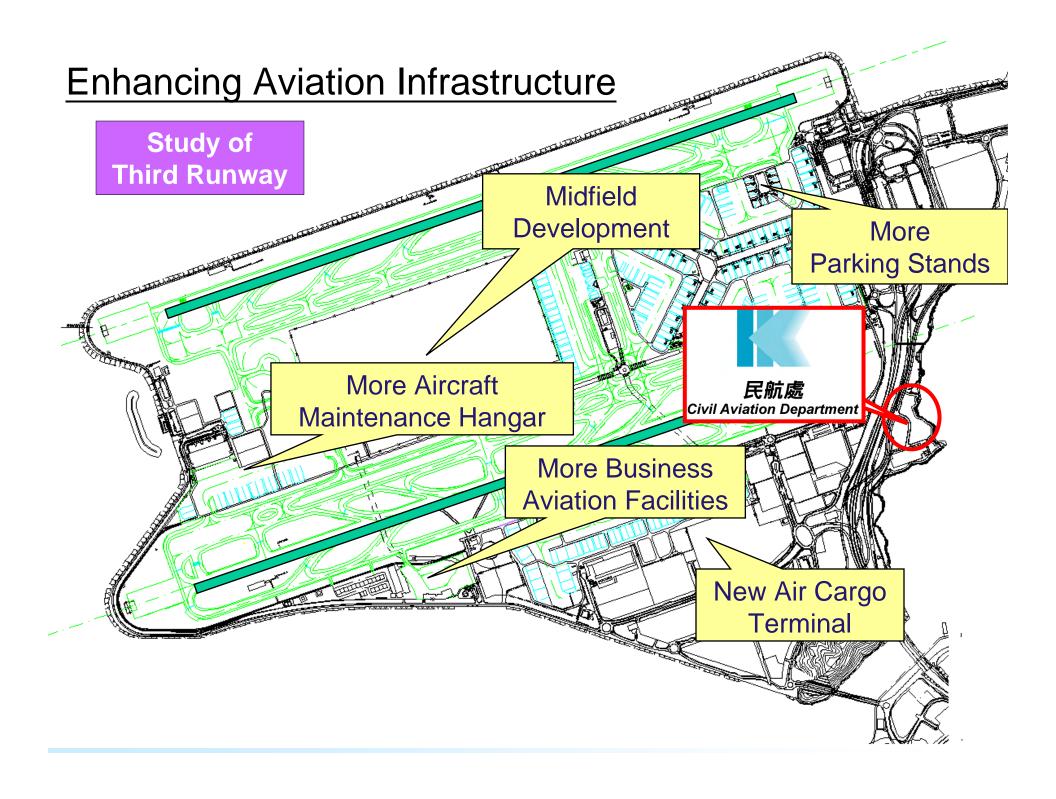
### **Airspace Congestion**

- 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.







### 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













### 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

