TENTH SYMPOSIUM AND EXHIBITION ON MACHINE READABLE TRAVEL DOCUMENTS
(MRTDs) AND BORDER SECURITY
OCTOBER 7-9, 2014

Border Controls in Hong Kong: Challenges Solved and Lessons Learned

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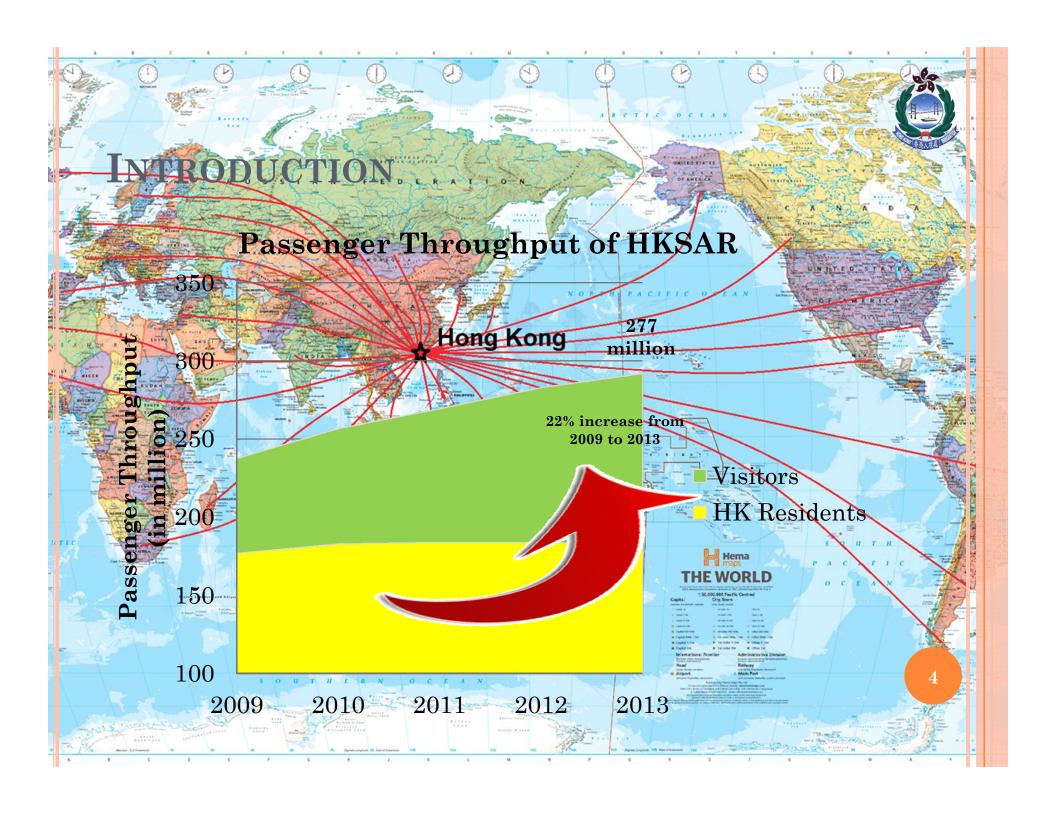
Hong Kong Special Administrative Region

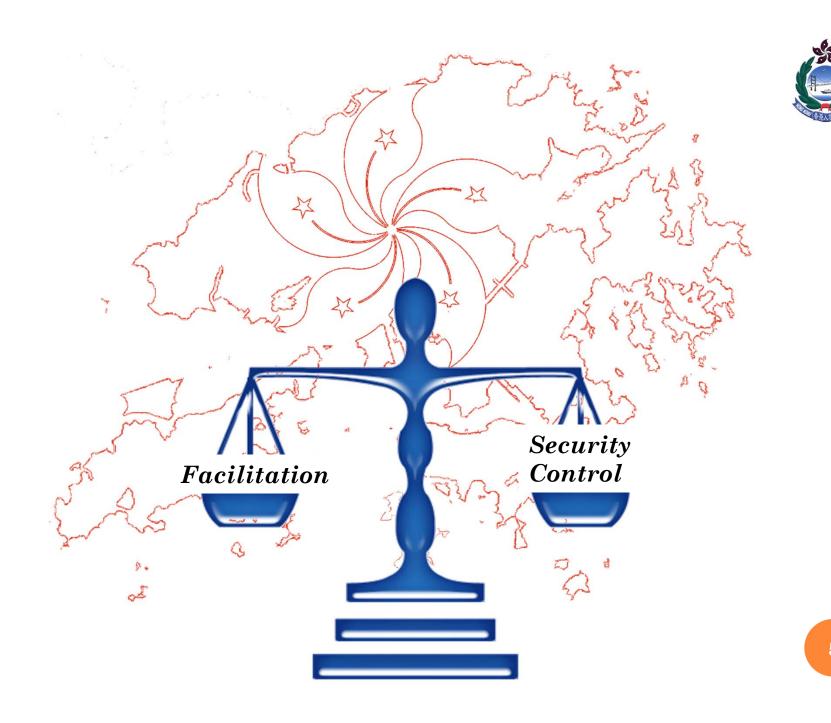




CONTENT

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 - Streamlining of Counter Clearance Procedures
 - Automated Clearance Service
 - Mobile Application
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 - Investigation into Forged Documents
- ◆ Challenges Arising from Automated Clearance Service
- Roadmap of Border Control







Streamling of counter clearance procedures

- ◆ Non-stamping immigration clearance service
 - Visitors
 - > Non-permanent Residents





AUTOMATED CLEARANCE SERVICE

• e-Gate launched in 2004 for HK Residents



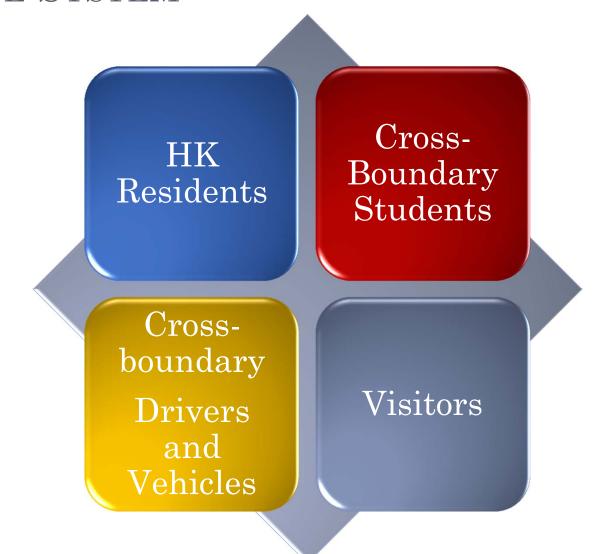




- Spatial Efficiency
- Manpower Efficiency
- Processing Speed and Capacity
- ◆ Immigration Control



E-GATE SYSTEM





CROSS-BOUNDARY STUDENTS

- ◆ Residents attending schools in Hong Kong
- ◆ Around 20,000







CROSS-BOUNDARY STUDENTS

Dedicated e-Gates



On-board Clearance



Simplified Clearance Procedure



E-GATES FOR CROSS-BOUNDARY DRIVERS AND VEHICLES

- ◆ License Plate Recognition Technology
- ♦ Height Detection Technology

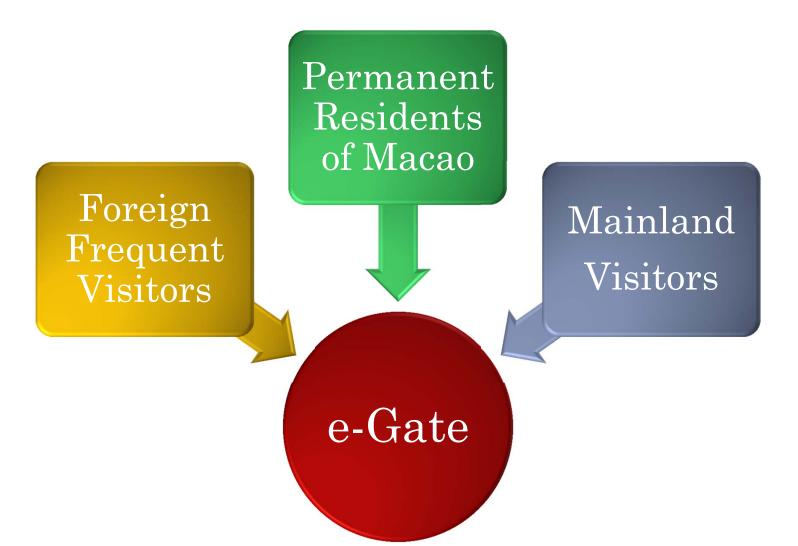








E-GATES FOR VISITORS





E-GATES FOR VISITORS

- Mainland visitors holding Electronic Exit and Entry Permit (e-EEP)
- Simplified enrolment and activation process
- ◆ Shorten the clearance time substantially





IMMIGRATION CONTROL AT E-GATES

Upon enrolment:

- Face-to-Face screening of documents and identity;
- Record checks

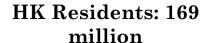
Upon clearance:

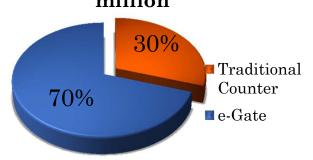
- Monitoring and alert mechanisms against undesirables;
- e.g. watchlist, lost and stolen travel document list and doubtful visitor index



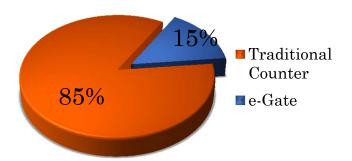
BENEFITS OF AUTOMATED BORDER CONTROL

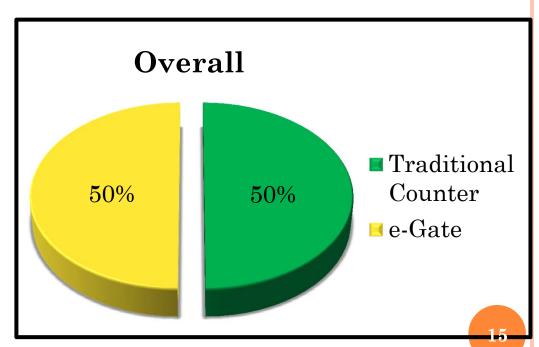
- ◆ Total passenger throughput in 2013: **277 million**
- ◆ 425 e-Gates for passengers and 80 for vehicles





Visitors: 108 million







FURTHER EXTENSION OF E-GATE SERVICE

- ICAO-compliant electronic passport holders
- Advanced facial recognition technology upon departure





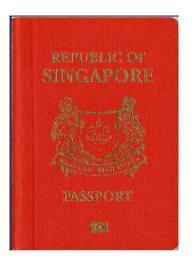


MUTUAL USE OF E-GATE SERVICE

- The Republic of Korea
- Germany
- Singapore
- More mutual agreements with other countries to come soon





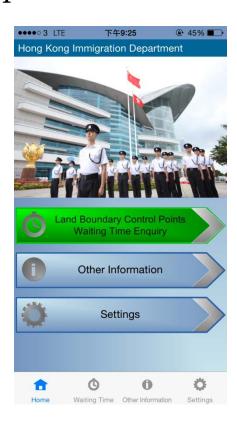




MOBILE APPLICATION

- Access via smart-phones or mobile electronic devices
- ◆ Real-time estimated waiting time at major land boundary control points









Investigations into Forged Documents

- Prevention and detection of forged travel documents for illegal migration, crimes or terrorism
- ◆ Intelligence-led operation strategy with other outside law enforcement agencies
- ◆ Intelligence-based watchlist mechanism
- ◆ Sharing data (e.g. counter fraud measures of HK travel documents) with counterparts
- Keeping out undesirables and criminals







CHALLENGES ARISING FROM AUTOMATED CLEARANCE SERVICE

- 1. Fingerprint capture performance
- 2. Anti-Spoofing performance
- 3. Physical and environmental constraint



1) Fingerprint capture performance

- Scanning performance affected by wet and dry finger of passengers
- Measures:
 - Placing wet sponge inside e-Gates
 - Frequent cleaning of scanners
 - Gate-keepers to offer assistance

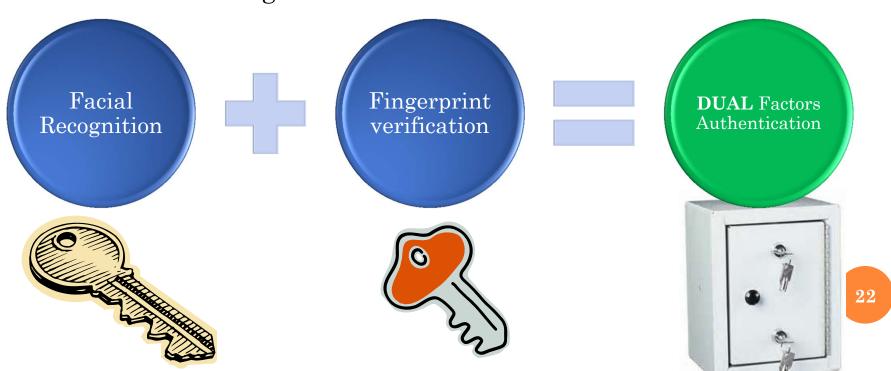






2) Anti-Spoofing performance

- ◆ Affected by dust and humidity
- ◆ Measures:
 - Sourcing new spoofing technologies in the market
 - Introducing Dual factors authentication





3) Physical and environmental constraint

- ◆ Difficult to expand existing infrastructure
- ◆ Balancing between the provision of e-Gates and tradition counters to allow suitable flexibility





ROADMAP OF OUR BORDER CONTROL

- Continuous adoption of information and communication technologies
- ◆ Increase e-Gates from **425** to about **600** by 2016



ROADMAP OF OUR BORDER CONTROL

- Promoting bi-lateral and multi-lateral use of e-Gates
- Harmonisation and standardisation of ABC system globally
- Continuous support and participation in the ICAO Public Key Directory



THANK YOU!