



Census and Statistics Department (C&SD)

## **Development of ICT Statistics - The Experience of Hong Kong, China**



### **Outline**

- IT Usage and Penetration in the Business Sector
- IT Usage and Penetration in the Household Sector
- Electronic Commerce
- IT Expenditure
- IT Manpower
- ICT Sector Statistics
- Telecommunication Indicators
- Major Issues and Challenges



## **IT Penetration in Business Sector**

- Annual Survey on Information Technology Usage and Penetration in the Business Sector since reference year 2000
- Data items included:
  - PC usage
  - Internet Usage
  - Web site usage
  - Electronic business/Electronic commerce (covering purchasing, receiving, selling and delivering goods, services and information through electronic means)
  - Budget for IT
  - IT security



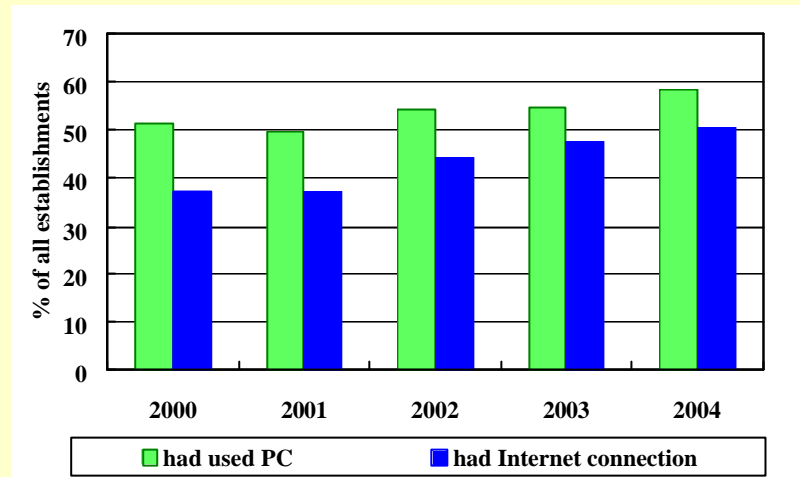
## **IT Penetration in Business Sector**

- New questions on wireless and mobile services in 2004 survey
  - Wireless and mobile devices in use
  - Wireless and mobile transmission technology employed
  - Wireless and mobile services employed from service provider; and
  - Wireless and mobile applications involved



## IT Penetration in Business Sector

- Some key findings



## IT Penetration in Household Sector

- Annual Household Survey on Penetration and Usage of Information Technology since reference year 2000
- Data items covered:
  - PC and Internet facilities in the household
  - Usage of PC and Internet at different locations
  - Knowledge and usage of Chinese input methods
  - Usage of electronic business services
  - Usage of online government services
  - Awareness of information security



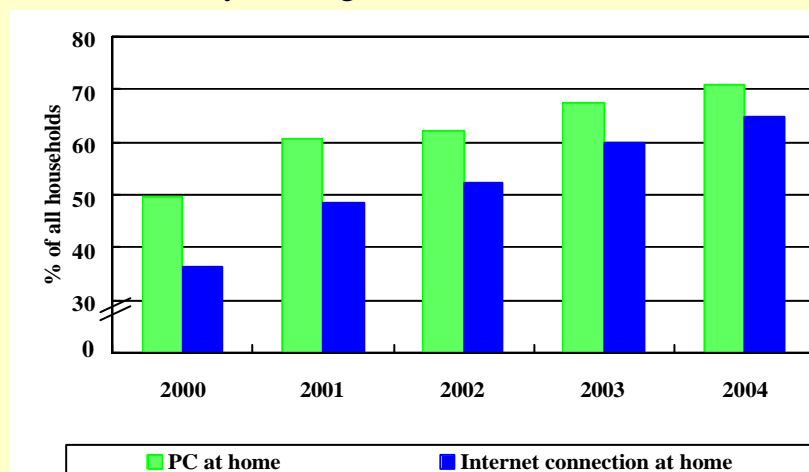
## IT Penetration in Household Sector

- New questions for 2004 Survey
  - Type of wireless technology used by mobile devices
  - Whether had used Government services
  - Views on online Government services



## IT Penetration in Household Sector

- Some key findings





## Electronic Commerce

- Hong Kong adopts OECD's broad definition of ecommerce
- Data collected:
  - Order or purchase of goods, services or information through electronic means
  - Receipt of goods, services or information through electronic means
  - Sales of goods, services or information through electronic means
  - Delivery of goods, services or information through electronic means



## IT Expenditure

- A series of Annual Economic Surveys
- Data items covered:
  - Expenditure on purchase of computer hardware
  - Expenditure on purchases of computer programs, software and databases for own use
  - Payments for other IT-related services
  - Cost of in-house development of computer programs and database for own use



## IT Manpower

- Bi-annual Manpower Survey on IT Sector
- 9 types of IT jobs covered
  - IT management
  - IT/software development
  - Telecommunication and networking
  - IT security
  - Database
  - Systems programming
  - Field support
  - Operation services
  - IT education and training



## IT Manpower

- Data items collected
  - Number of IT employees under each of the 9 types of IT jobs in the survey period and the forecast number for the coming 12 months
  - Preferred academic qualification, IT experience and average annual remuneration package of IT employees
  - Number of IT employees recruited by sources of recruitment and promoted during the past 12 months
  - Recruitment difficulties encountered
  - Character and competence of the newly recruited
  - Trend of outsourcing and/or shifting of IT functions (within or outside HK)



## Classification of IT&T Sector

- Hong Kong IT&T Sector
  - Reference made to the ICT sector promulgated by OECD
  - Adopts Hong Kong Standard Industrial Classification (HSIC) to demarcate the IT&T Sector
  - Covers establishments engaged in the manufacturing, distribution, installation and maintenance of IT&T products and the provision of IT&T services



## IT&T Sector Statistics

- A series of Annual Economic Surveys
- Data items collected
  - Number of establishments
  - Persons engaged
  - Vacancies
  - Business receipts
  - Value added



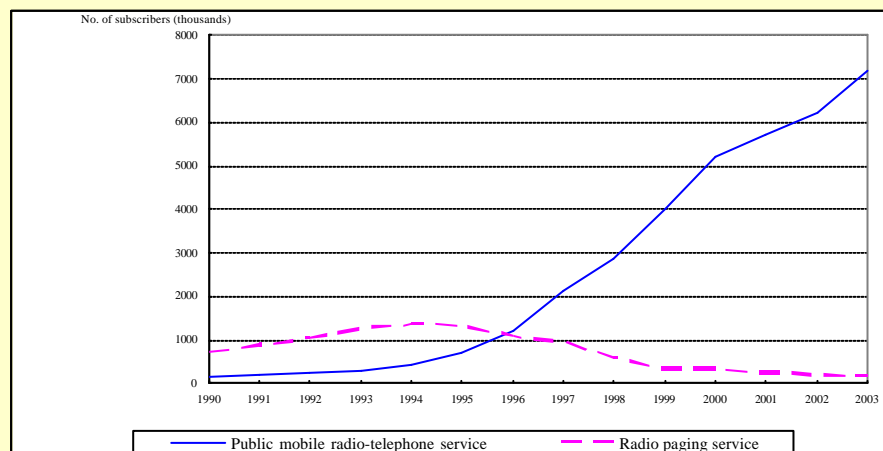
## Telecommunication Indicators

- Administrative records
  - Majority of telecommunications statistics are compiled by the Office of Telecommunications Authority (OFTA) through regular submission of administrative records by telecommunication operators



## Telecommunication Indicators

- Public Mobile Phone Services







## Major Challenges

- Rapid development of ICT makes statistics on PC/Internet/Website penetration rates over years not strictly comparable
- Difficult for respondents to provide breakdown of their business receipts by electronic sales and customer group
- Respondent reporting burden



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**Thank You**