Usage, Collection & Dissemination of Telecommunication / Infocomm Infrastructure & Access Data in Singapore

ITU Regional Workshop

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Background

- Various types of telecommunication licensees in the infocomm sector today
- > 2 broad licence categories:
 - A Facilities-based Operator (FBO) operates its own network(s) to provide telecommunication services or sell to other operators
 - Fixed telecommunication networks
 - Mobile communications networks
 - A Services-based Operator (SBO) leases network elements from FBOs to provide services or resell services of others
 - Internet access services
 - IP telephony services
 - Resale of telephone services



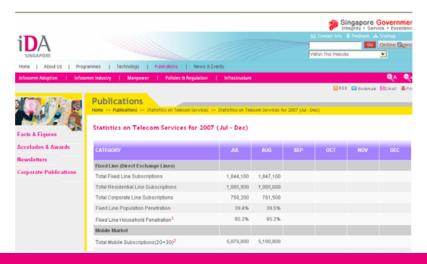
Data Sources

> Administrative data:

- Requirement of licence condition for FBO/SBO licensees to provide information stipulated by IDA
- Information requirement depends on the type of licensees and the nature of services provided
- Frequency: mostly annually/quarterly/monthly; or ad-hoc once-off

> Complemented by annual survey findings from:

- Infocomm Industry Survey
- Infocomm Manpower and Usage by Enterprises



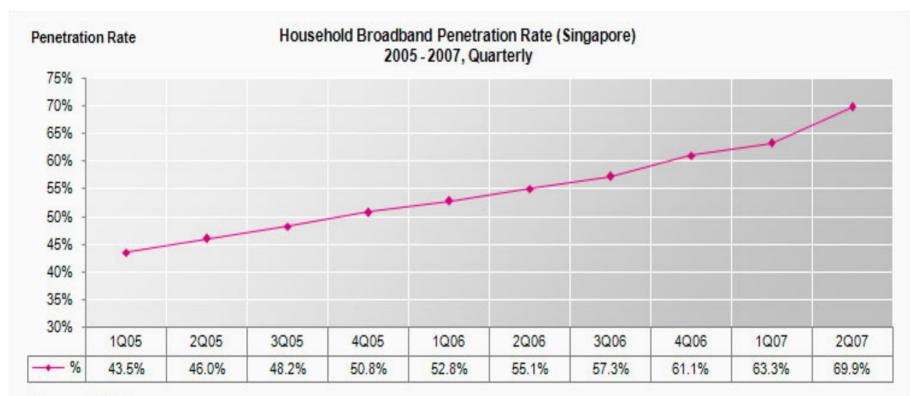


Objectives

- Monitoring and analysis of trends and development in Singapore's infocomm landscape
 - International benchmarking
- Policy formulation and review by relevant government agencies
- Raise industry awareness and general public understanding of the state of infocomm development and trends



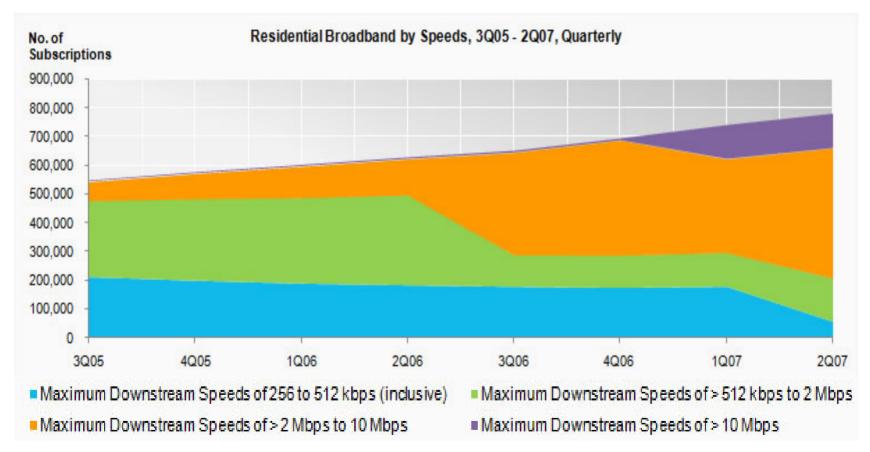
> Example: Household Broadband Penetration, 1Q05-2Q07



Source: IDA POI.



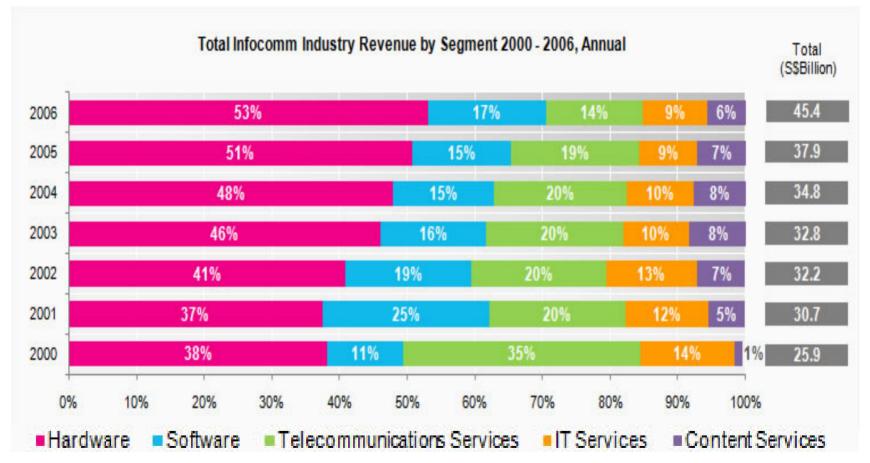
> Example: Residential Broadband Take-up by Speeds, 3Q05-2Q07



Source: IDA POI



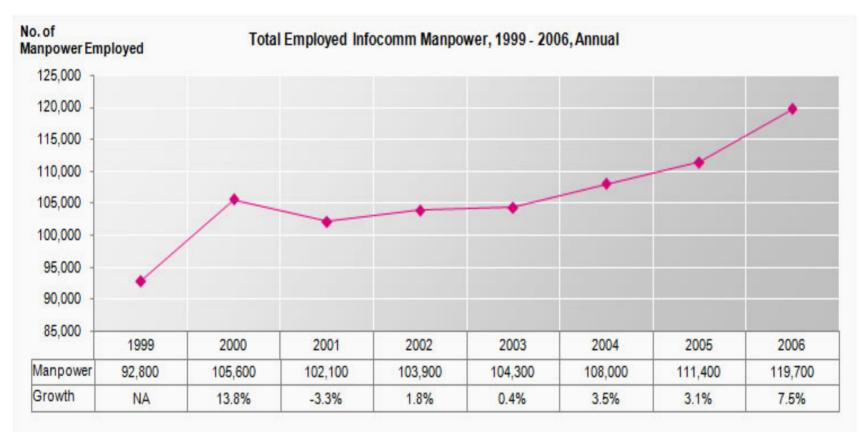
> Example: Infocomm Industry Revenue, 2000-2006



Source: IDA's Annual Survey on Infocomm Industry



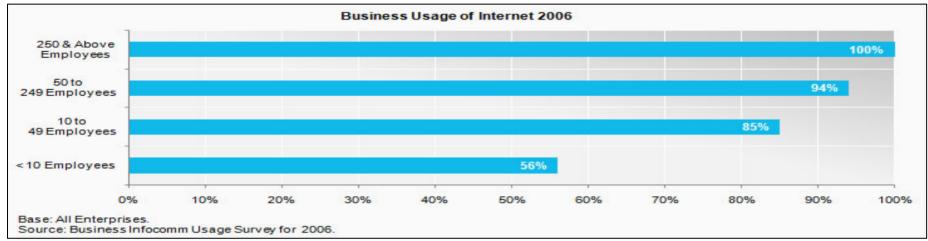
> Example: Infocomm Manpower, 1999-2006

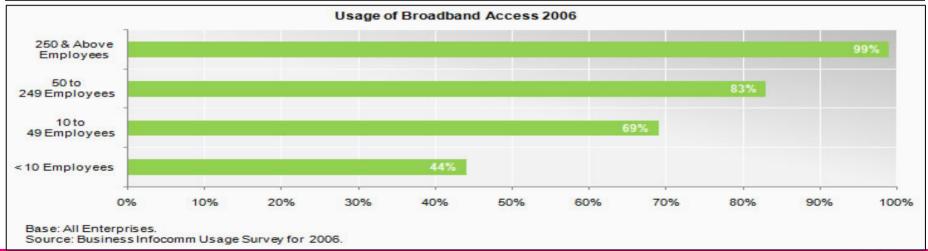


Source: IDA's Annual Survey on Infocomm Manpower.



> Example: Infocomm Adoption by Enterprises, 2006

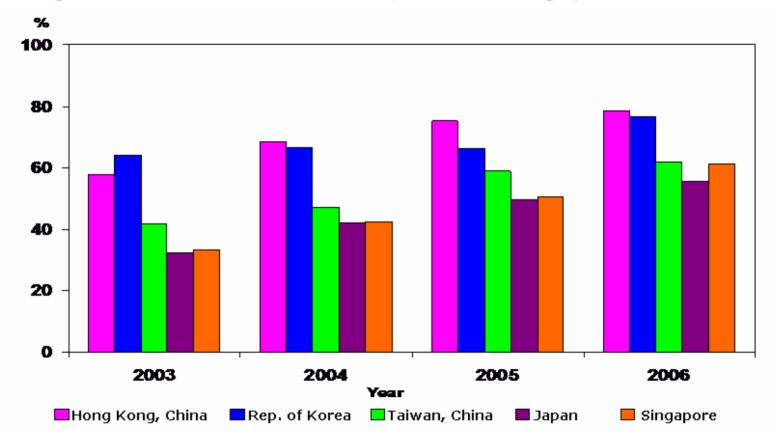






International Benchmarking

 Example: Household Broadband Penetration amongst Hong Kong, South Korea, Taiwan, Japan and Singapore, 2003-2006



Source: 1. Hong Kong as a Knowledge-based Economy - A Statistical Perspective 2007 2. 2007 Korea Internet White Paper 3. Industrial Development Bureau, the Ministry of Economic Affairs (IDB), Taiwan, China 4. Information & Communications in Japan White Paper 2007 and Statistical Handbook of Japan 2007 5. IDA POI



Policy Formulation & Review

Intelligent Nation 2015 Masterplan ("iN2015")

- Latest 10-year infocomm masterplan released by IDA in June 2006
- Target-setting for iN2015:

By 2015,

in the world in harnessing infocomm to add value to the economy and society

80,000 additional jobs

2 -fold increase in value-added of infocomm industry to S\$26 billion

90% of homes using broadband

3 -fold increase in infocomm export revenue to S\$60 billion

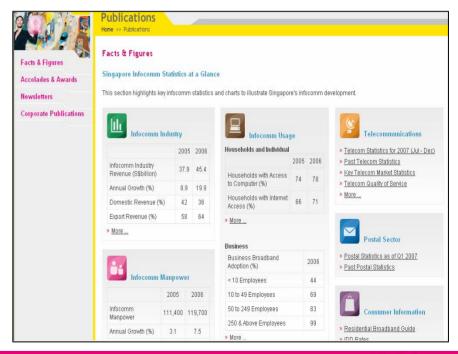
100 computer ownership in homes with school-going children



Dissemination of Infocomm Indicators

- > Internal audience
 - via detailed management reports
- > External audience
 - via infocomm statistics posted on the IDA Internet website







Challenges Faced & Measures Adopted

> Relevance of data:

- Ensure type of data collected remains meaningful to monitor and track infocomm trends and development
 - Example: Breakdown of residential broadband by speed:
 - The current breakdown of take-up by broadband speeds is becoming less relevant given the range of broadband offerings being increasingly offered in the market for speeds higher than 10 Mbps

> How we cope:

- Periodic reviews and industry consultations to ensure data collected continues to be relevant and takes into consideration information provision burden on licensees and respondents to surveys
- Supplement with administrative data where possible



Challenges Faced & Measures Adopted

> Timeliness of data:

- Timely accurate data submission by licensees
- Timely aggregation of data submitted by licensees
- Timely dissemination of indicators
- Timely completion of surveys with high response rate

> How we cope:

- Institutionalise framework for provision of information and dissemination
 - Standardised information templates for ease of submission by licensees
 - Revamp of IDA's Internet web page "Facts & Figures" to improve user-friendliness in accessing and using indicators
- Better project management of surveys
 - Relationship building with respondents
- Exercise of regulatory powers where appropriate



Challenges Faced & Measures Adopted

- > Confidentiality of data:
 - Maintenance of confidentiality of data
- > How we cope:
 - Clear demarcation within IDA between officers with access to data of individual licensees and other officers
 - IDA's commitment to strictly safeguard of confidentiality data
 - Dissemination of data only on aggregated basis



Summary

- Data collection and submission from licensees/survey respondents is resource-intensive for both industry and IDA
 - Indicators generated should be carefully considered and the overall data provision and collection framework designed accordingly to maximise the efforts
 - Systematic process needs to be implemented, monitored and reviewed to ensure outcomes achieved
- Sharing of indicators generated is important and helps to foster better awareness and understanding of infocomm developments



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