

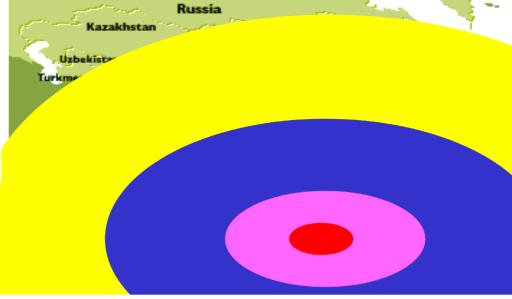
# Singapore - Wired with Wireless

Presented By Khoong Hock Yun Assistant Chief Executive, IDA



# Asia is . . .

# Home to 2.8 billion people



- Strategis Group predicted Asia to emerge as one of the world leaders in the adoption of 3G wireless technology
- Mobile phone industry watchers forecast that Asia will lead in 3G mobile phone subscription by 2003
- ✤ Asia Pacific mobile subscriber forecast is 342 mil by 2004, 27% CAGR. (Source: IDC, 2000)
- Asia will have most no. of mobile-commerce users after Europe by 2005 (Source : Ovum)
- ✤ Asia-Pacific mobile services revenue to increase from US\$73 billion in 1999 to US\$138 billion by 2004. (Source: Gartner)



## Are we far from the projections?









## In the Market

(SH 82 Li Sharp Docimo I-Mode enabled phone)

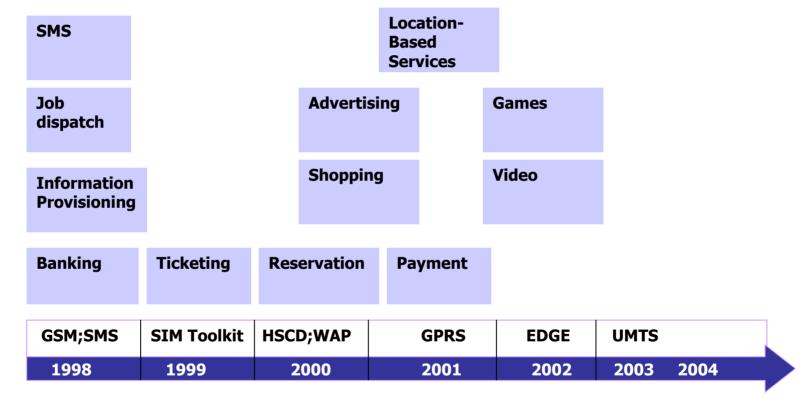
(source:http://www.japon.net/imode/imode hard2.shtml )







## **A View of M-Commerce Growth**



(Simplified from "Mobile Commerce Report", Durlacher)

How does Asia/Singapore compare?

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## **M-Commerce in Asia**

### Key Markets

China, Hong Kong, Japan, Malaysia, Philippines, Singapore, South Korea, Thailand (source Business 2.0, March 2001)

 Number of M-Commerce Users Today (est.) 9.1 million



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M-Commerce Revenues Today (est.)
 US\$1.55 billion

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(Estimates from Business 2.0, March 2001)



## In Japan



- I-Mode
  - 20 million subscribers (March 2001) of which
    - 7.1 million M-Commerce users
- Expected High Growth in M-Commerce
  - Low Internet Usage (Mobile as alternative)
  - Always-on I-mode packet network
  - Fees added to phone bills (Simplify orders)
- Outlook
  - Richer video, media services
  - Location Based Services



(sources: Business 2.0, March 2001; NttDocomo.com)



## In South Korea



- Mobile Penetration
  22 million (50% of population)
- Expected Growth
  - Government, manufacturers and cellular operators push for mobile commerce
- Outlook
  - Richer video, media services
  - Location Based Services

(sources: Ministry of Information and Communication, Korea (mc go.kr) SKTelecom.com, Business 2.0)





## In Singapore



Mobile Penetration
 2.5 million (63.1% of population)

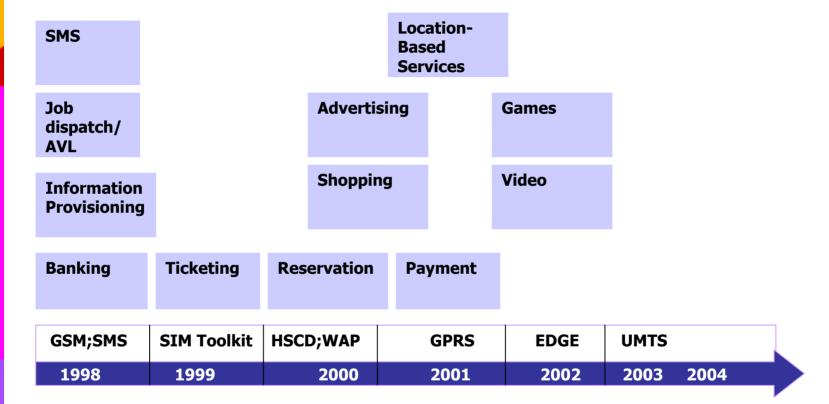
### Expected Growth in M-Commerce

- IT-Savvy Population
- Government, Industry push for mobile commerce
- Ready Infrastructure (Telco, map data etc)

(source: http://www.ida.gov.sg)



## **Availability of Services in Singapore**



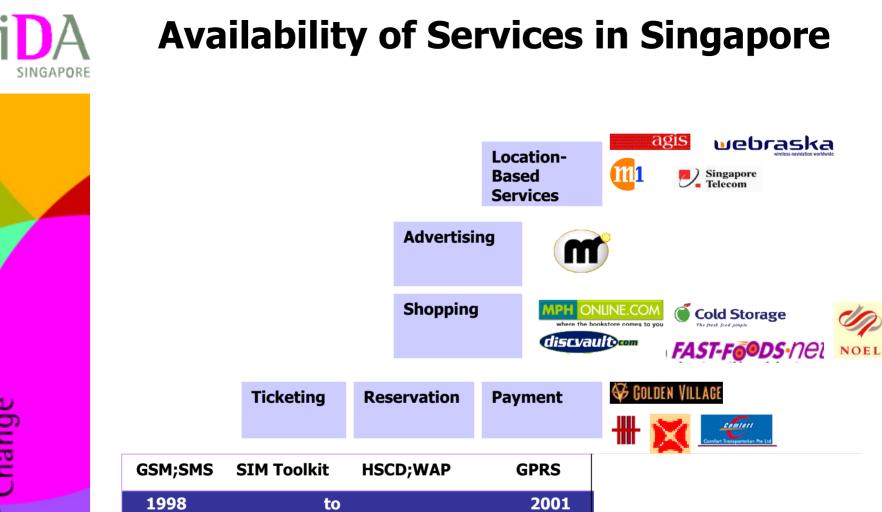
(Simplified from "Mobile Commerce Report", Durlacher)



## **Availability of Services in Singapore**



(Simplified from "Mobile Commerce Report", Durlacher)



(Simplified from "Mobile Commerce Report", Durlacher)



## In Singapore

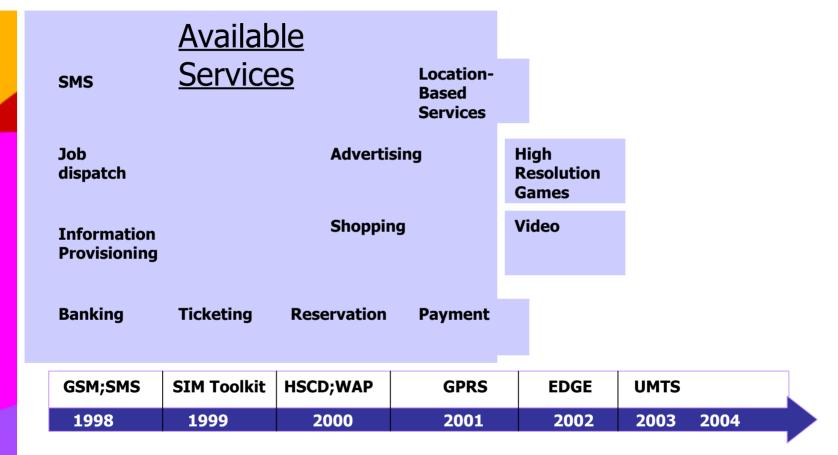


- Mobile Penetration
  2.5 million (63.1% of population)
- Expected Growth in M-Commerce
  - IT-Savvy Population
  - Government, Industry push for mobile commerce Ready Infrastructure (Telco, map data etc)
- Outlook
  - Richer video, media services
  - Location Based Services
  - Mobile-Payment Services

(source: http://www.ida.gov.sg)



### Availability of Services (Japan,Korea, Singapore)





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# Developing Singapore's Wireless Industry

### **Objectives**

Proliferation of technological innovations

- Build Singapore's M-Commerce Ecosystem
- Showcase projects
- Test-bed new services/products

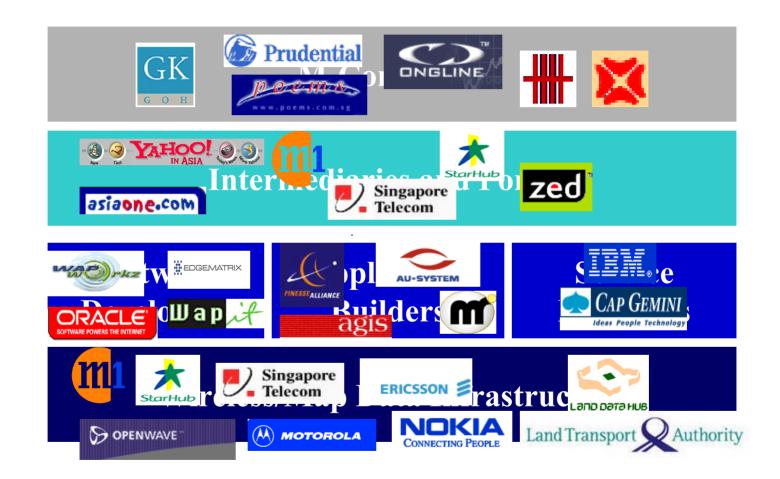
 Exports and technology transfer of new wireless products/services

•Develop leading edge talent & mass adoption of wireless lifestyle

# Wired With Wireless



### Build Singapore's M-Commerce Ecosystem









#### eCelebrations Singapore 2001 (March - April)

- Wireless Pavilion to showcase projects
- Over 65,000 turnout in first 5 days



#### **Ericsson Cyberlab**

- One of four in the world.
- World-wide responsibility for creation of new terminals concept.



#### **HP Mobile E-Services Bazaar**

- Main Hub for Asia Pacific
- Incubator and test-bed to over 62 local developers



## **Export and Technology Transfer**



Removal of witholding tax for certain classes of software purchased overseas (including wireless)

• As of Feb 2001, Singapore-based wireless companies need not pay w/i tax for software bundled with hardware (eg gateway, SMSC on servers)

#### **PKI Singapore Forum**

#### **PKI Singapore Forum (Launched 2001)**

- Forum to educate public on PKI and harmonize cross-border standards
- Comprises mobile operators, mobile security vendors, banks

# Developing Singapore's Wireless Industry

### **Objectives**

Proliferation of technological innovations

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 Exports and technology transfer of new wireless products/services

•Develop leading edge talent & mass adoption of wireless lifestyle

Leverage on existing programmes; New Programmes to be announced Q2 2001



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# **Thank You**

## wireless@ida.gov.sg

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## Outline

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- How far are we?
  - M-Commerce Growth in Asia
  - M-Commerce Growth in Singapore
  - Singapore M-Commerce Ecosystem
- What is the government doing to help?

## Capabilities



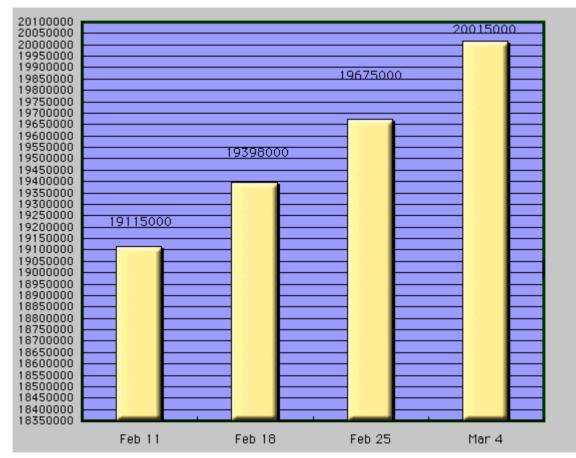




Wireless Infrastructure Wireline Infrastructure







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## **Three Focus Sectors**



- •Information
- •Entertainment
- •Video/Imaging
- •Audio
- •Messagip

### **Mobile Commerce**

•Mobile Banking •Mobile trading •keting

#### **Location-Based Services**

- Information services
- Tracing services
- •Resource Management
- •Navigation