

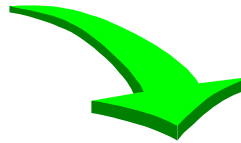
FROM INTELLIGENT ISLAND TO GLOBAL INFOCOMM CAPITAL



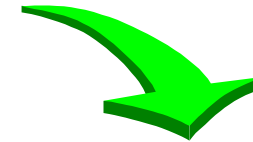
Lam Chuan Leong
Chairman, IDA

Stages of Revolution

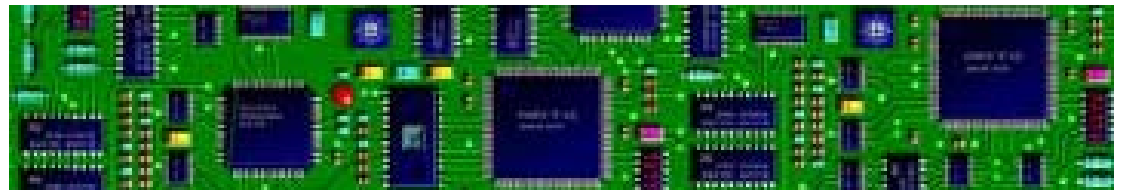
Agricultural Revolution



Industrial Revolution



INFORMATION REVOLUTION



Information Revolution

Information Technology has....

...Bridged Time & Space



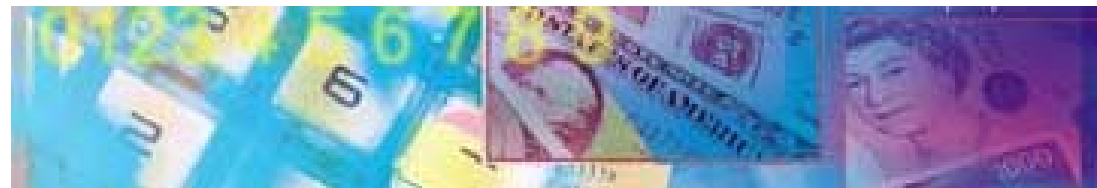
...Connected Markets



...Control over Sophisticated Machines & Processes



...High Potential for Economic Yield



Harnessing the Information Revolution

- ◆ **Singapore's computerization plan started in 1980**
 - ▶ to harness information technology for government and industry through a series of 3 national IT plans



Informatization of S'pore

1981 - 1985

Civil Service Computerization Plan

- to develop the civil service, local IT industry & IT manpower

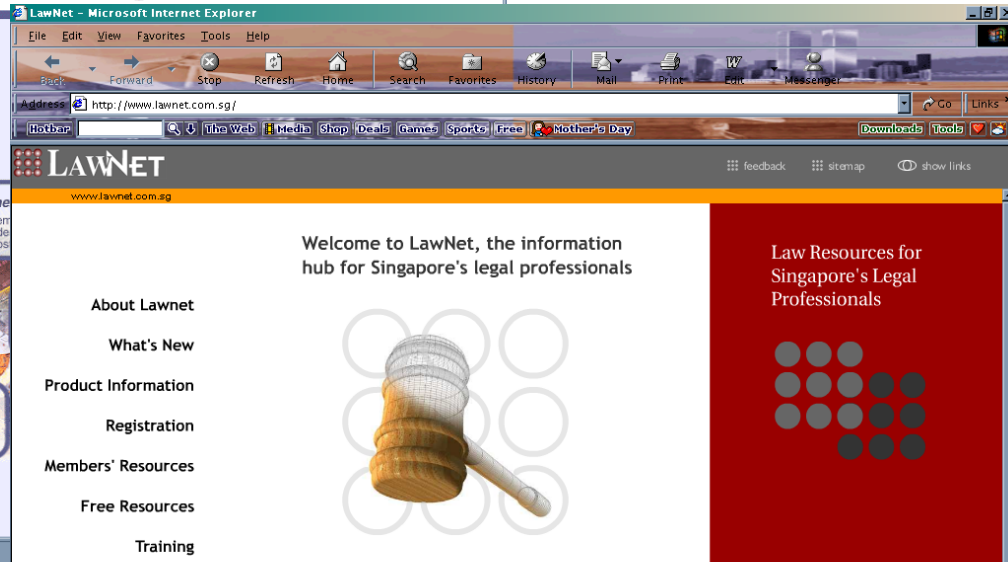
The collage consists of three overlapping screenshots of government websites:

- Top Screenshot (IRAS Services Main Page):** Shows a Microsoft Internet Explorer browser window with the address http://www.iras.gov.sg/Services/svc_frame.htm. The page features a blue header with the words "Fairness", "Teamwork", "Integrity", "Responsiveness", "Professionalism", and "Innovation". A navigation menu includes "Home", "About Us", "Tax Info.", "Electronic Commerce", "Services", "Download", "Career", "Press", "Releases", and "Practice Notes | Search |". A sidebar lists "IRAS Services" such as "Compass", "CPF/IRAS Line", "Directory of Building/Estate Names", "E-Filing", "E-Stamping", "Fax Express", "Contact Numbers", "Inland Revenue Information Service (Iris)", "Integrated Legal Requisition System", "List of GST Registered Business", and "List of Licensed Auctioneers, Appraisers & House Agents". The main content area is titled "Electronic Filing (E-Filing)".
- Middle Screenshot (Electronic Filing (E-Filing) page):** Shows the same browser window with the address http://www.iras.gov.sg/Services/svc_frame.htm. The main text reads: "Electronic Filing (E-Filing) is a convenient and easy way for most in file their income tax returns via Internet or telephone. This service daily during the filing period up till 15 April. To use this service, you PIN." Below this, it states: "Internet Filing is available at our website <http://efile.iras.gov.sg>. call 1800-356 8322 and follow the instructions over the telephone." At the bottom, it says "This page is last updated on 24 May 2000."
- Bottom Screenshot (eCitizen portal):** Shows a browser window with the address http://www.ecitizen.gov.sg/index_low.html. The page is titled "Your One-stop Citizen Service Portal" and features a large graphic of a winding path labeled "LIFE JOURNEY" with various icons representing different services. A list of services includes: "Register Birth", "Attend JC/CI/Poly/ITE", "Register for National Service", "Look for a Job", "Pursue a First Class Career", and "Go Overseas". The page also includes a "search" box and a "gWiz" logo.

Informatization of S'pore

1986 - 1991

National IT Plan - enabling EDI between govt & industry



Informatization of S'pore

1992 - 1999

IT 2000 Masterplan

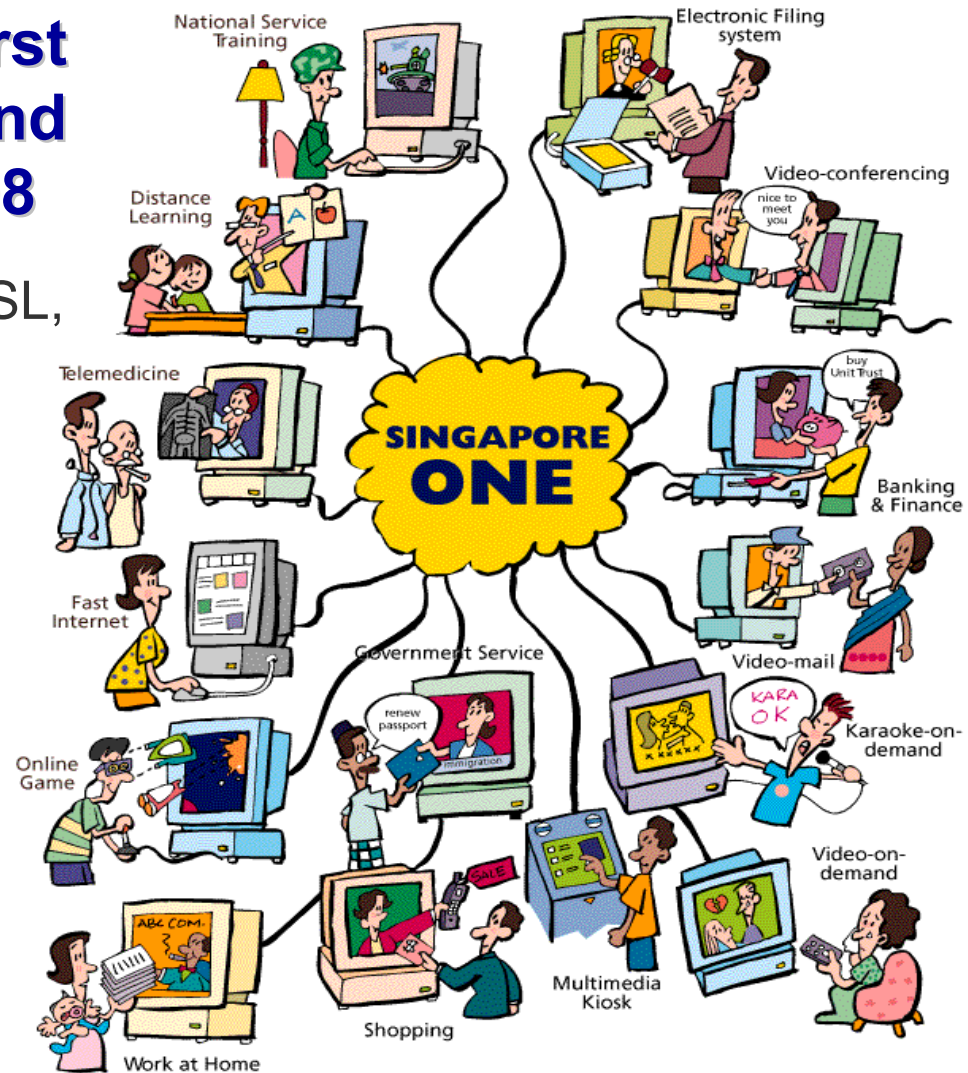
**To transform Singapore into
an Intelligent Island**

Singapore ONE - One Network for Everyone

◆ Launched world's first nationwide broadband infrastructure in 1998

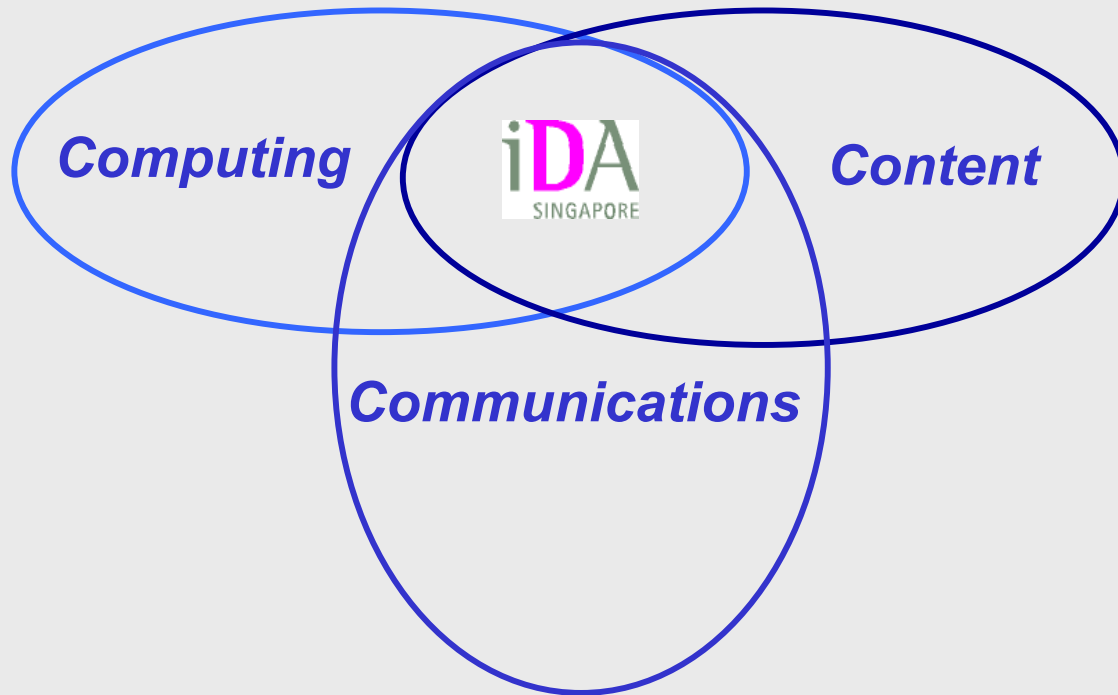
- ▶ access options via ADSL, Cable or ATM
- ▶ over 200 interactive broadband multimedia applications to date

◆ All Universities and Polytechnics wired campus-wide



Convergence

Convergence in technologies → *Convergence in businesses;
Dramatic industry restructuring*



Formation of IDA

1 December 1999

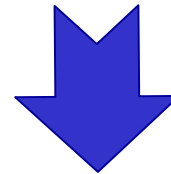


National Computer Board

+



**Telecommunications
Authority of Singapore**



INFOCOMM DEVELOPMENT AUTHORITY OF SINGAPORE

Infocomm 21 Vision

2000 - 2005

Infocomm 21 - to develop a vibrant Global Infocomm Hub with a thriving & prosperous Digital Economy

1992 - 1999

IT 2000 Masterplan - towards an Intelligent Island

1986 - 1991

National IT Plan - enabling EDI between govt & industry

1981 - 1985

Civil Service Computerization Plan
- development of the civil service & local IT industry

Infocomm 21's Main Thrusts

Infocomm 21 - to develop a vibrant Global Infocomm Hub with a thriving & prosperous Digital Economy

- 1 Bring Singaporeans online -
*e-Powering the People***
- 2 Bring Singapore businesses online -
*e-Powering the Private Sector***
- 3 Bring Singapore government online -
*e-Powering the Public Sector***



Telecoms Liberalization

- ◆ Over 200 new licensees since 1st April 2000
- ◆ Investment of US\$0.5 billion

October 1998
Internet Access
Service
Provision

June 1999
International
Internet
Exchange
Service Provision

April 2000
Basic Telecoms
Service
Broadband Open
Access

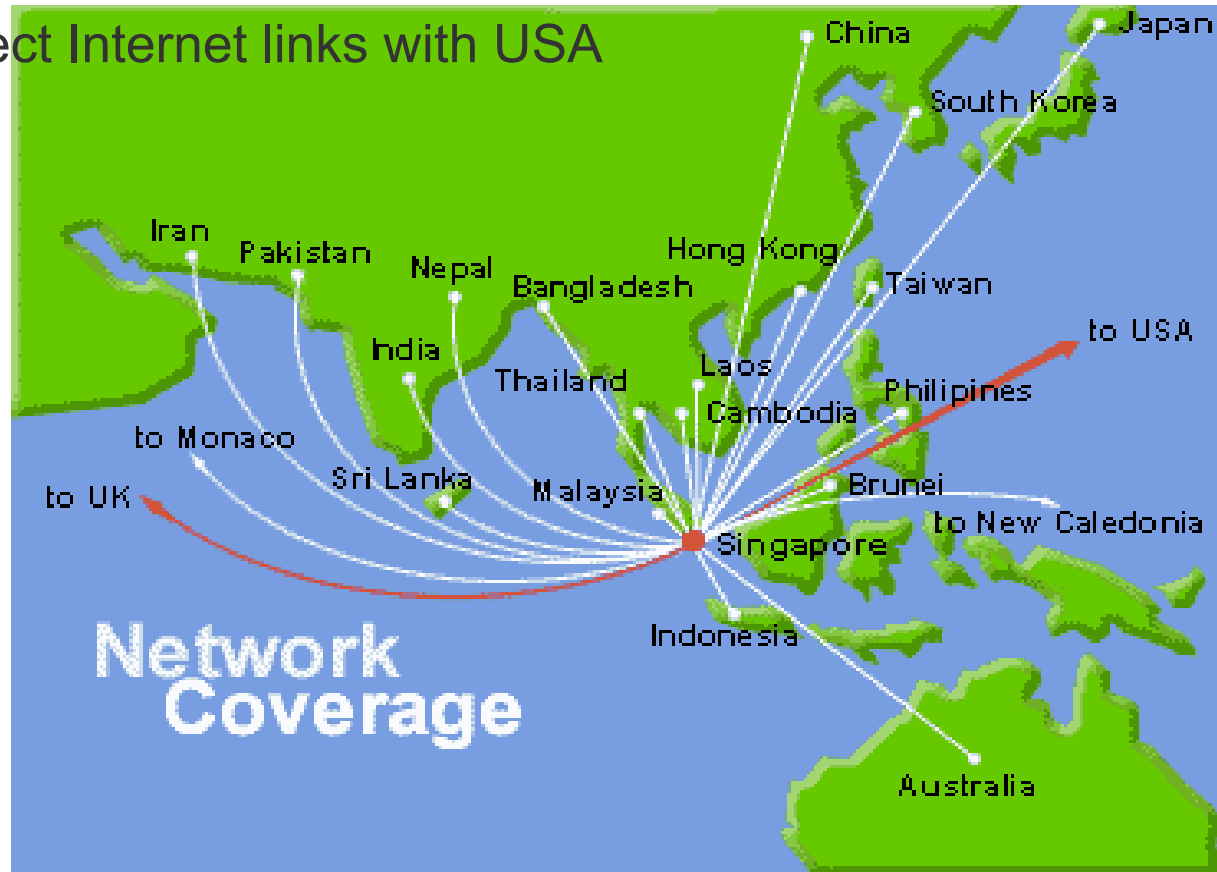
Some of the Facilities Based & Service Based Operators
Licensees include:



High Speed International Connectivity

◆ Increase Global Reach

- ▶ >45 Mbps direct Internet links
- ▶ connected to all key cities in Asia Pacific
- ▶ > 1 Gbps direct Internet links with USA



Vibrant Infocomm Industry

- ◆ Attract leading infocomm players to Singapore
- ◆ Promote the growth of key growth sectors such as Telecommunications, Wireless, Digital Media, Software & IT Services and Internet Data Centres



Development Programmes

◆ Provide platform for companies to participate in projects & pilots

- ▶ Jointly conduct market research activities through Market Access Development
- ▶ Schemes to jumpstart the development of new and innovative technology & services

Market Indices

BT-SRI	674.7	+1.2
ST Index	1,886.1	+1.2
UOB Blue Chip	605.2	+1.3



◆ e-Government Action Plan

- ▶ to be one of the best e-Governments in the world by providing widest range of online govt services
- ▶ “user-centric” and not “agency-centric”
- ▶ launched in 2000
- ▶ Almost US\$1 billion invested

Convenience Of One-Stop Information And Services At Revamped Singapore Government Website

New features include an integrated calendar of events, a single point for search engine.



E-powering the People



◆ To develop Singapore into a leading infocomm-savvy society with a pervasive e-lifestyle

- ▶ already at 60% PC and Internet penetration
- ▶ need to bridge the digital divide



◆ Basic IT literacy training

- ▶ for housewives, unemployed, workers, retirees and disabled

◆ PC Reuse Scheme

- ▶ old PCs given free to needy families

◆ Easy PC Plan by National Trade Union Congress

- ▶ new PC for less than US\$1/day for 3 years

Thinking Schools, Learning Nation



Where We Are Today



◆ **Singapore was ranked by Economic Intelligence Unit (EIU) in May 2000 as :**

- ▶ **Top in Asia for E-Readiness**
- ▶ **No.7 globally among 60 countries**



◆ **Key areas of growth :**

- ▶ **Broadband**
- ▶ **Wireless**
- ▶ **E-commerce**

Broadband Developments

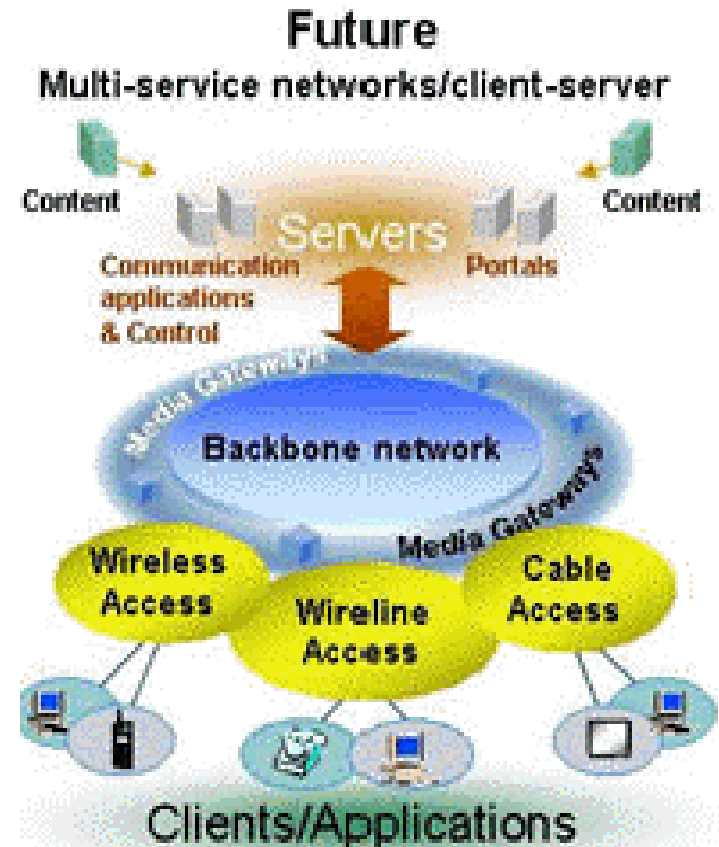
◆ Nationwide broadband infrastructure

- ▶ covers 99% of schools, homes, offices & public access areas

◆ Broadband users reached 300,000 to date

◆ >300 industry players

- ▶ capabilities range from development of broadband content and applications to delivery



Wireless Broadband

- ◆ **Allocated 3G licenses to 3 telco operators**



- ◆ **“Wired With Wireless” Programme launched**

- ▶ assists local & international players to use S'pore as a test-bed for innovative developments



Wired With Wireless

E-commerce Developments

- ◆ Volume of B2B online transactions in 1999 hit US\$21 billion

NETS Network For Electronic Transfers (S) Pte Ltd

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Gateway to Internet Purchasing

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NETS SET Payment Gateway	Shared ATM Service
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PAY BILLS online

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Basic Building Blocks to develop Singapore into a trusted global e-business hub :

◆ A robust & secure e-business infrastructure

- ▶ Adopt Public Key Infrastructure (PKI) or other security technologies



◆ Clear and transparent policy & legal framework

- ▶ The Electronic Transactions Act and Regulations



◆ Data privacy and intellectual property rights protection

New economy laws on the drawing board

THE Government is reviewing existing laws and regulations to cater to the needs of the new economy,

Already one of the world's most e-commerce-ready countries, he said Singapore "cannot afford to

China & S'pore - Partners For the Digital Future

- ◆ **Leverage on Singapore's skills and experience over the past 2 decades**

- ▶ collaborate & explore potential business opportunities for Singapore, China and Asia

- ◆ **We welcome joint partnerships in :**

- ▶ Broadband
- ▶ Wireless
- ▶ e-Commerce
- ▶ e-Government





**Singapore , a Global
Infocomm Capital**

Thank You

www.ida.gov.sg