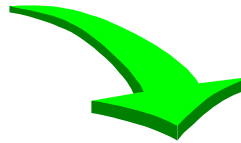# FROM INTELLIGENT ISLAND TO GLOBAL INFOCOMM CAPITAL
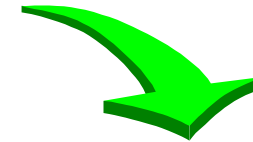
Lam Chuan Leong
Chairman, IDA

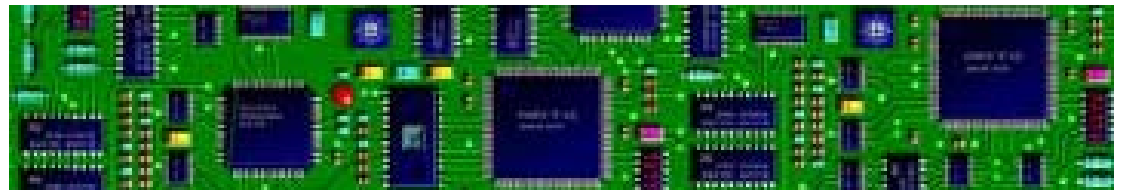# Stages of Revolution

Agricultural Revolution

Industrial Revolution

INFORMATION REVOLUTION

Catalyst for Change

Information Revolution

Information Technology has….

...Bridged Time & Space

…Connected Markets

...Control over Sophisticated Machines & Processes

...High Potential for Economic Yield

Catalyst for Change
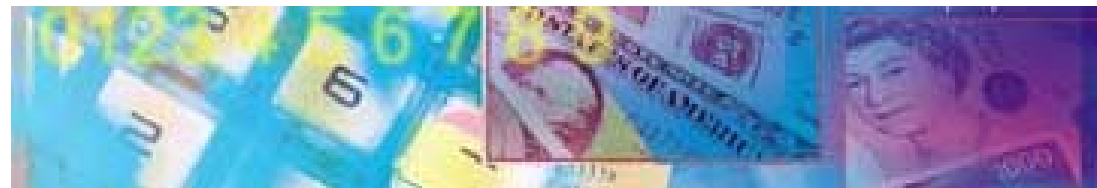
Harnessing the Information Revolution

- ## Singapore's computerization plan started in 1980

  - to harness information technology for government and industry through a series of 3 national IT plans

Catalyst for Change

1981 - 1985

Civil Service Computerization Plan
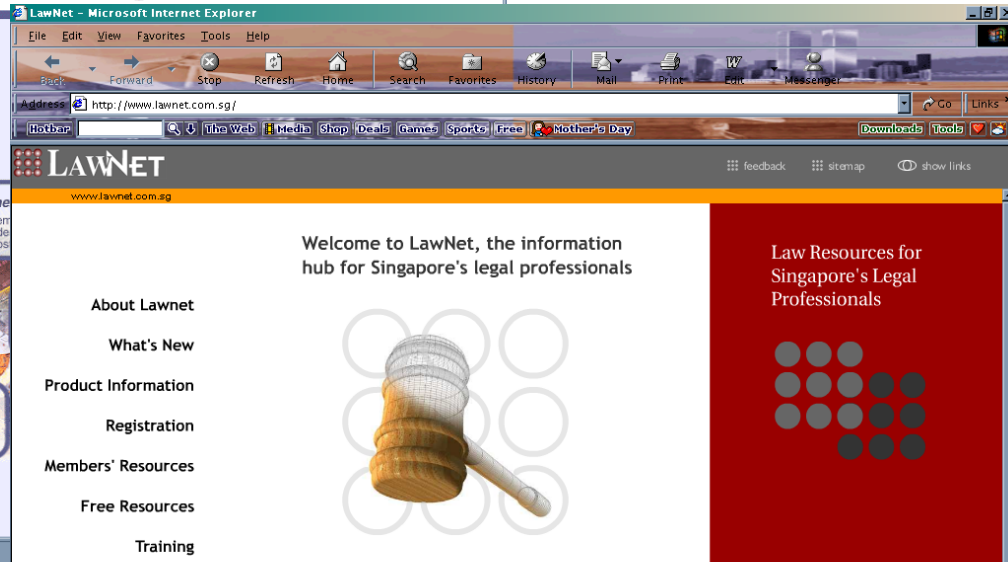- to develop the civil service, local IT industry & IT manpower

Catalyst for Change

5

Informatization of S'pore

1986 - 1991

National IT Plan - enabling EDI between govt & industry

Catalyst for Change

6

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Informatization of S'pore

1992 - 1999

IT 2000 Masterplan

To transform Singapore into an Intelligent Island

Catalyst for Change

7

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**

Catalyst for Change
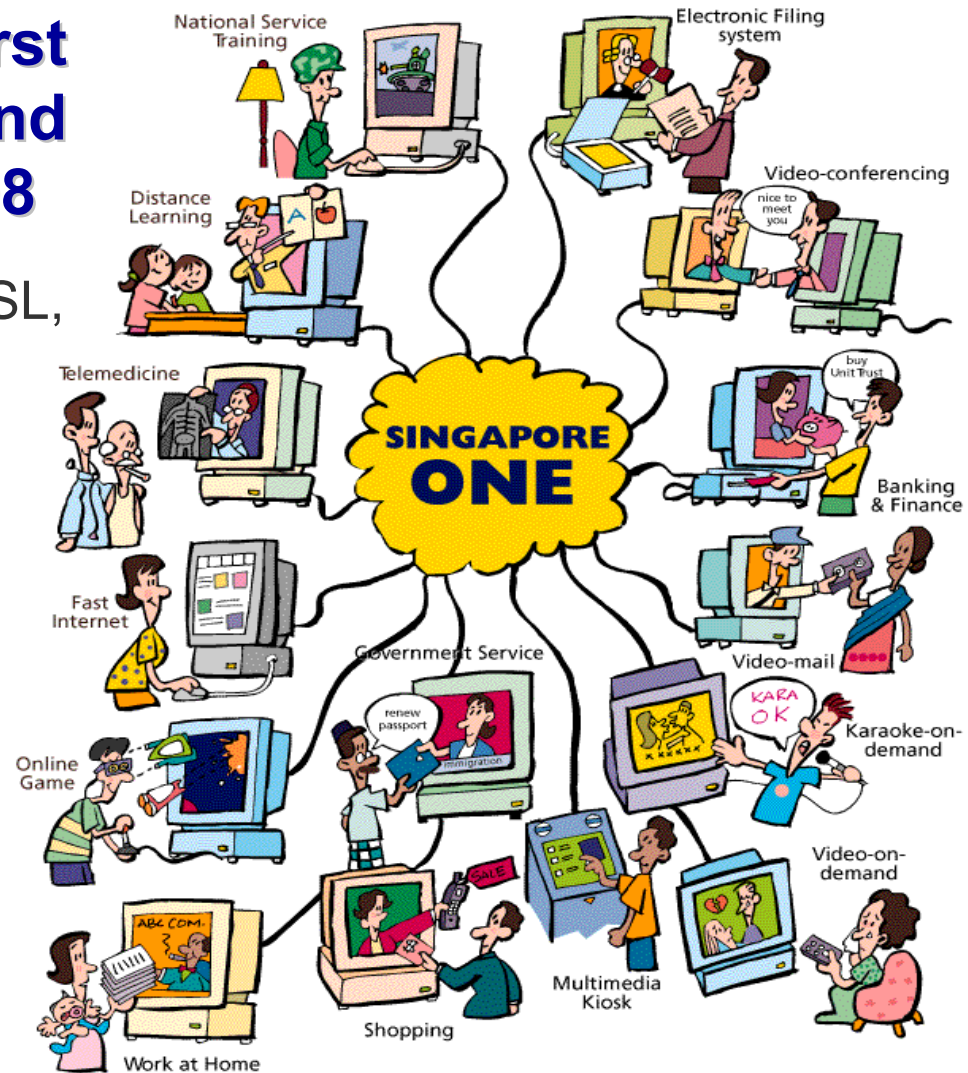
Convergence

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

Computing

Content

Communications

Catalyst for Change
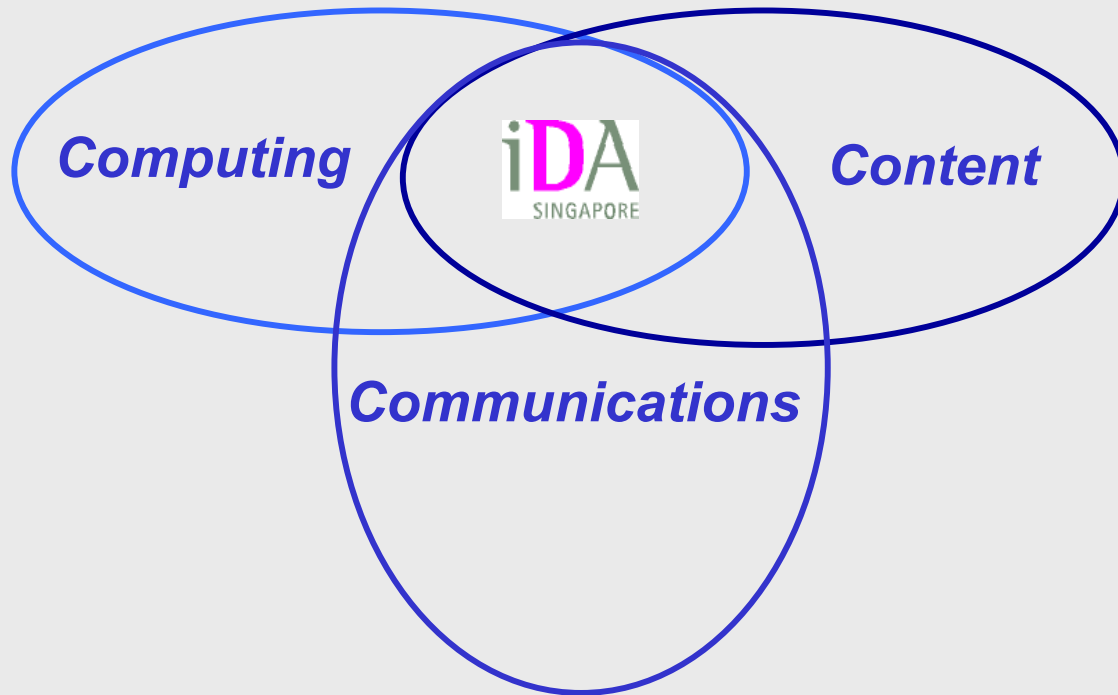
Formation of IDA

1 December 1999

National Computer Board + **Telecommunications Authority of Singapore**
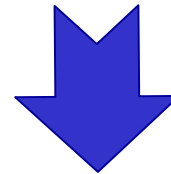
INFOCOMM DEVELOPMENT AUTHORITY OF SINGAPORE

Catalyst for Change

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

Catalyst for Change

11

Infocomm 21's Main Thrusts

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

❶ **Bring Singaporeans online -**
   e-Powering the People

❷ **Bring Singapore businesses online -**
   e-Powering the Private Sector

❸ **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:

SINGnet where it's @

DAVNET

FLAG Telecom

MCI WORLDCOM

UUNET TECHNOLOGIES

UUNET A WorldCom Company

AT&T

Singapore Telecom

Telstra

StarHub

GlobalOne SM

TELIA

concert

BT

DataOne

CABLE & WIRELESS

Sprint

EQUANT

Catalyst for Change

iDA SINGAPORE

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

iDA SINGAPORE

Catalyst for Change
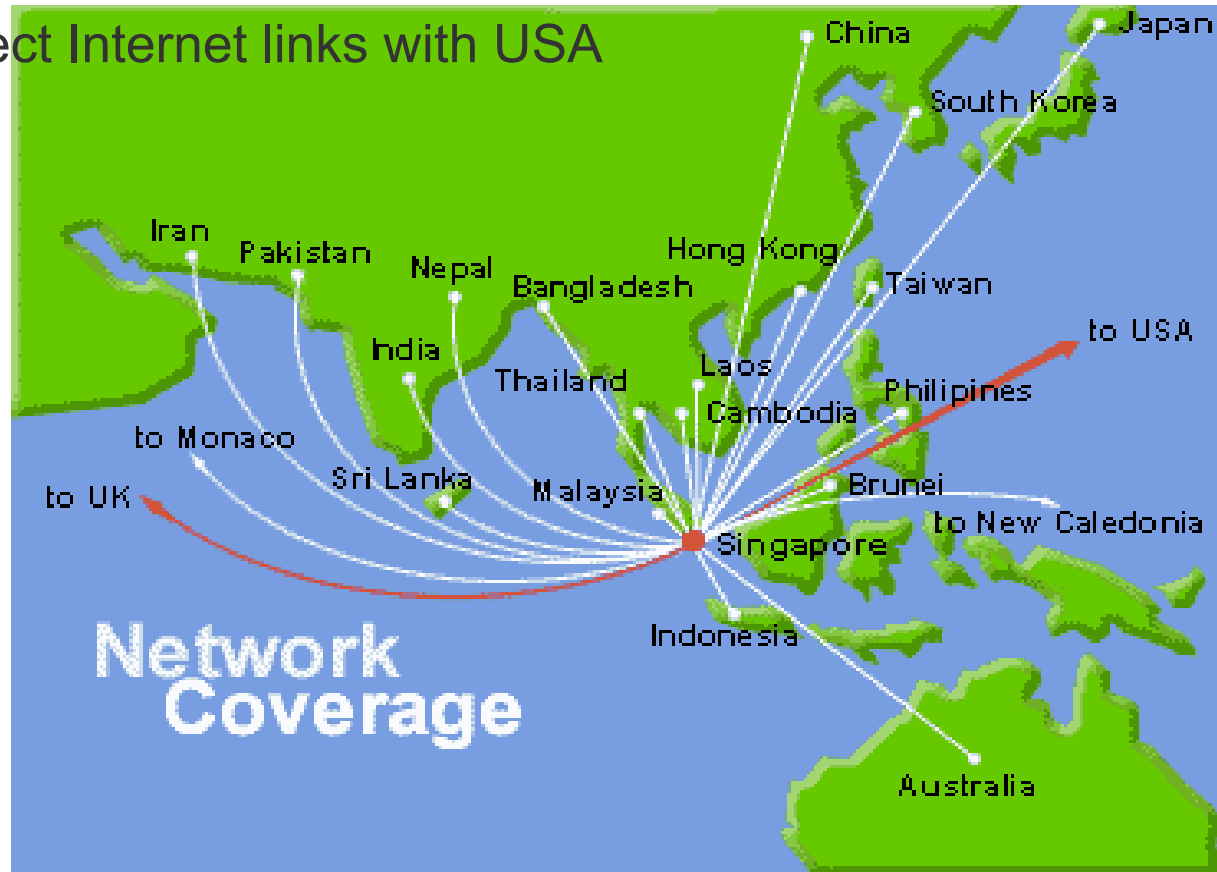
Vibrant Infocomm Industry

◆ **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

Catalyst for Change

E-powering the Govt

- **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

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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

Catalyst for Change

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**
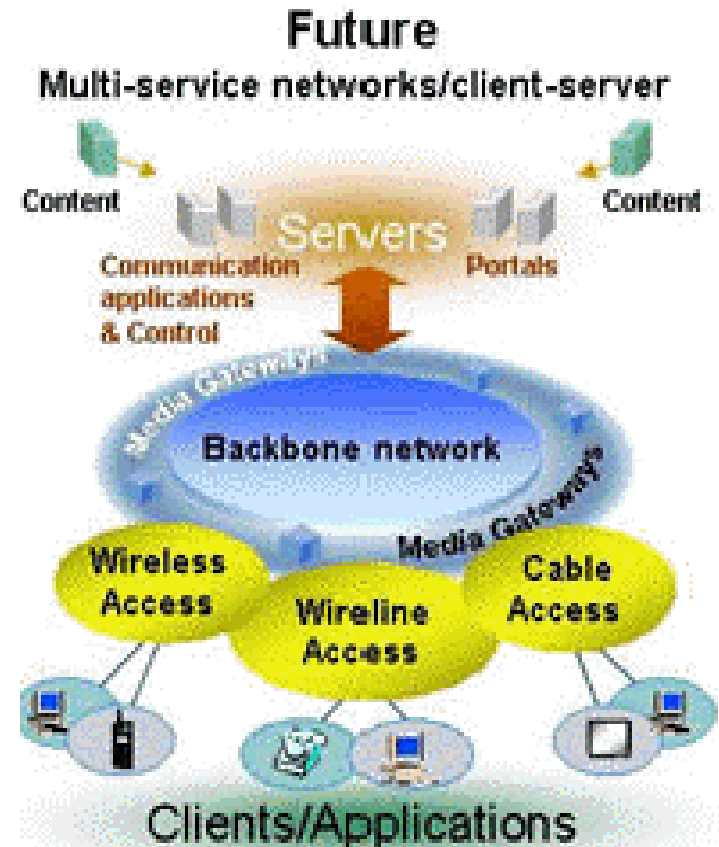
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Broadband Developments

◆ **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

Future
Multi-service networks/client-server

Content

Servers

Communication applications & Control

Portals

Content

Media Gateway

Backbone network

Media Gateways

Wireless Access

Wireline Access

Cable Access

Clients/Applications

Catalyst for Change

20

Wireless Broadband

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

  m1 · StarHub · Singapore Telecom

- **"Wired With Wireless" Programme launched**
  - ▶ assists local & international players to use S'pore as a test-bed for innovative developments

  Singapore
  Wired With Wireless

Catalyst for Change

E-commerce Developments

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

Catalyst for Change

E-powering Businesses

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 re-viewing 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

Catalyst for Change

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

iDA
SINGAPORE

Catalyst for Change

Singapore , a Global
Infocomm Capital

Thank You

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