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Singapore's ICT Journey - The Past 30 years and the Next 5 years

Presentation

The World Bank

30 September 2009



Singapore



ICT Industry: \$58.1 Billion (US\$ 40.0 Billion) annual growth 12.4%



140,000 **ICT Professionals** 6.5% annual growth



Households with access to computer : 80%

Households with Internet Access: 76%







Singapore Parliament House 1967



Ease of doing business*:

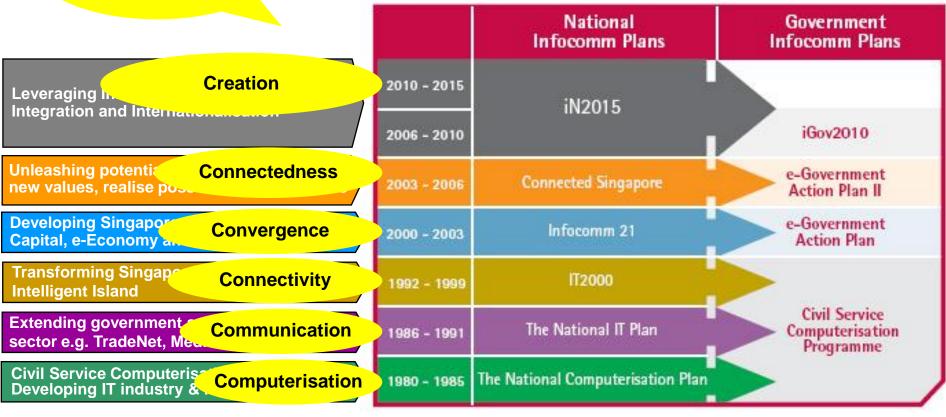
(183 economies)

4th consecutive years

^{*} Source: The World Bank

Singapore's 30 years ICT Journey





Infocomm Development Authority of Singapore



- Statutory Board, Singapore Government.
- Formed 1 Dec 1999 from merger of the National Computer Board (NCB) and Telecommunication Authority of Singapore (TAS), as a result of a growing convergence of information technology and telephony.
- cultivate a vibrant and competitive infocomm industry to sustain long-term GDP growth and global economic competitiveness of Singapore

Infocomm Industry Champion

- environment
- ecosystem
- workforce

Infocomm Master- Planner and Developer

key enabler
national infrastructure
leading edge

The Government CIO

- plan, develop and manage WOG IT
- oversee standardsenforce security

IDA International, a wholly owned subsidiary of IDA Singapore

ida international

"executing agency for all collaborations on public service ICT between Singapore and countries around the world"

OUR MISSION

IDA International helps public agencies deliver **socio-economic outcomes** enabled through public service infocomm.

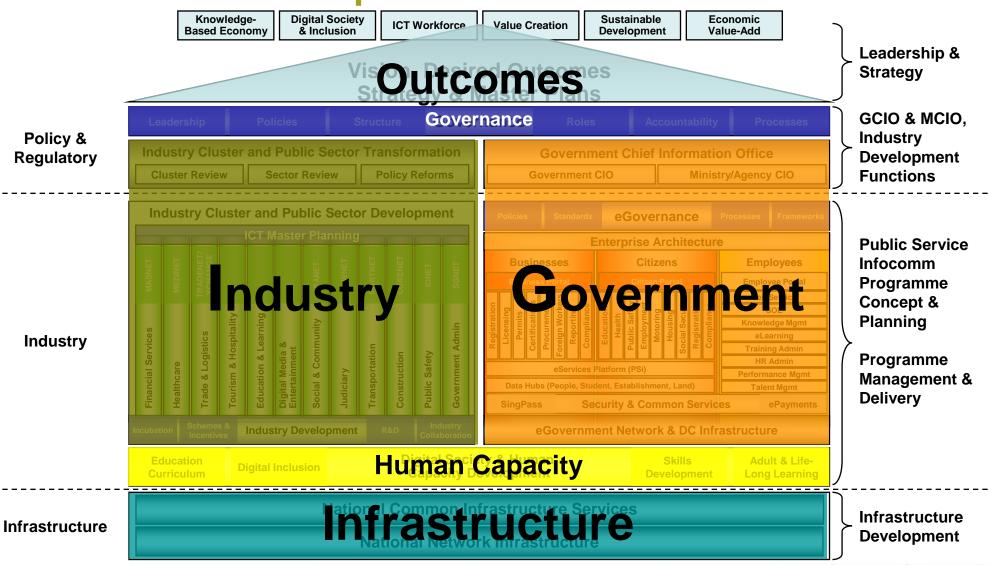
OUR ROLE

- 1. We help foreign governments plan, design and implement impactful programmes in **eGovernment**, **infocomm manpower development and economic sector development**.
- 2. We help our foreign government counterparts better understand and benefit from Singapore's experience and to implement their programmes successfully
- 3. We bring unique and proven infocomm expertise, experience and know-how to **accelerate the implementation** of public service ICT programmes for governments around the world.

OUR PARTNERS

Developing countries (Asia, Africa, Middle East, Latin America)

Infocomm Development Framework



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E-Filing Business Registration

BizFile



- Electronic filing and registration of new businesses
- Deployed by Accounting and Corporate Regulatory Authority of Singapore
- Allows members of the public to file online all legally prescribed business & company forms for the purposes of registration & statutory disclosure requirements

* Accolades:

- CIO 100 Honors 2004 and 2005
- Intelligent Enterprise Asia Award 2004





Government to Business: Business Licensing



A multiple award winner, the Online Business Licensing Service (OBLS) allows businesses to submit one or multiple licence applications to the relevant government agencies

| Business Needs | Previously or Manually | Now Through e-Services |
|------------------------------------|--|---|
| Incorporating a new Company | S\$1200 to \$35000 (depending on company size) | S\$300 (flat fee) Time required: 2 hours |
| Submitting building plans | Manual dispatching of documents to 12 agencies | Savings of \$450 by submitting online |
| Obtaining an entertainment license | Time required: 8 weeks | Time required: 2 weeks |
| Trade Clearance | At least 3 working days to clear | <15 minutes25% Productivity Increase50% Cost reduction |







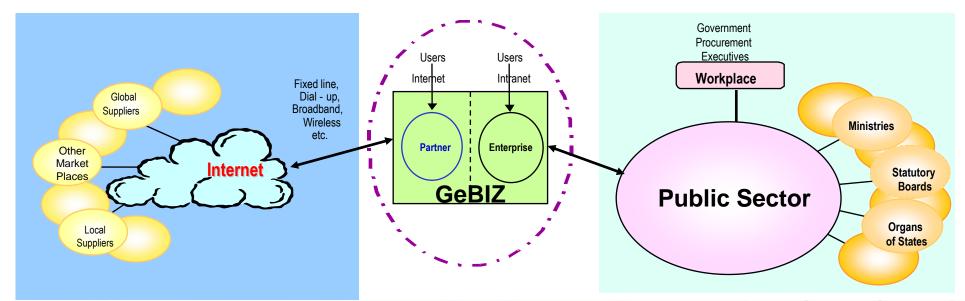




Government to Business: Government Electronic Business (GeBiz)



- Started in 2000, a one-stop e-procurement portal used by the Singapore Government to conduct trade with suppliers
- Over 120 government agencies and 10,000 government buyers in Singapore
- Handles transactions worth more than S\$20 billion annually. 5% to 25% savings.
- Reduces paper work, submit e-bids and receive e-orders anytime and anywhere
- Improves efficiency for government agencies and suppliers
- WTO-GPA compliant: Transparency, Open And Fair Competition, Value for Money



Government to Businesses

ica international

Education: EdVantage

- 535,000 students in 358 schools
- 113,000 students in 3 universities, 5 polytechnics, Institute of Technical Education (ITE)
- 26,000 teachers in schools, 7,500 academic staff in PSEIs

IEXPERIENCE

Learner Portfolio :: Learners' profile and portfolio of learning journey

Assessment :: Holistic assessment of students starting with formative schoolbased assessment

Collaboration in Learning :: Applications for increased interaction

iACCESS

One to One Computing :: Personal learning devices

Wireless Campus :: Schools to be wireless

Learner On The Move :: Wireless@SG

Learning @ Home :: High-speed broadband at home



THE APPLICATIONS

NTELLIGENT





Schools

of the Future

(15 or 5%)

Experimental Schools (60 or 20%)

All Schools (355)

iACCESS

PERVASIVE INFOCOMM ACCESS

ILEARN

RESOURCES

ILEARN

Interactive Textbooks:: Use of interactive INTERACTIVE DIGITAL textbooks in curriculum

Learning Digital Exchange :: Vibrant sharing of school-created digital learning resources, and access to premium learning content

Games for Learning :: New ways of learning LEARNING through games and simulations





FutureSchools@Singapore

Capacity to leverage

- state-of-the art technologies
- innovative school designs

to enable

- innovative curriculum, pedagogies and assessment programmes for engaged learning
- efficient administrative practices

through

- strategic collaboration with industry partners and Institutes of Higher Learning (local & foreign)
 - First phase involves 5 schools 2 Primary, 3 Secondary
 - Each FutureSchool draws up its own programme according to the needs of its students
 - A Call-for-Collaboration facilitates the selection of solutions from industry consortia



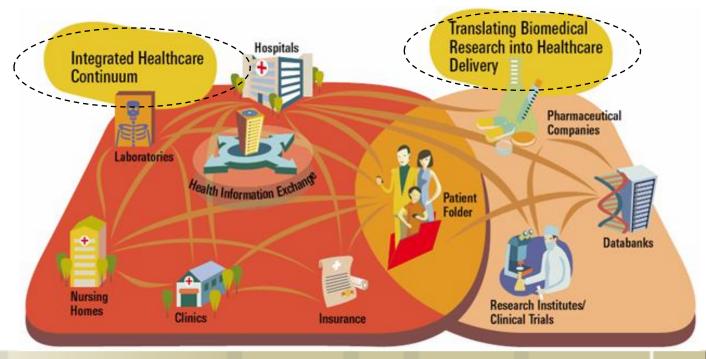
Healthcare

Goal

To accelerate sectoral transformation through an infocomm-enabled, personalized healthcare delivery system to achieve high quality clinical care, service excellence, cost-effectiveness and strong clinical research

Desired Outcomes

- Well-integrated quality healthcare 3. Greater ability of public to manage their health
- Cost-effective healthcare services 4. Strong clinical and health services research



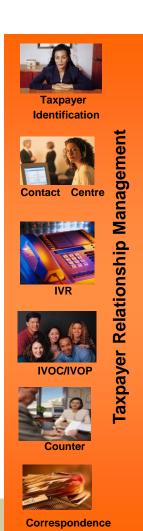
Tax Office, Singapore ...1990s

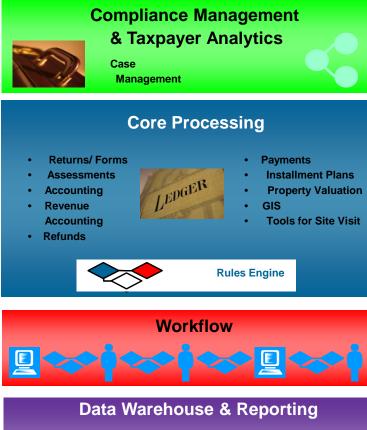


Overview of IRIN













Corporate Portal

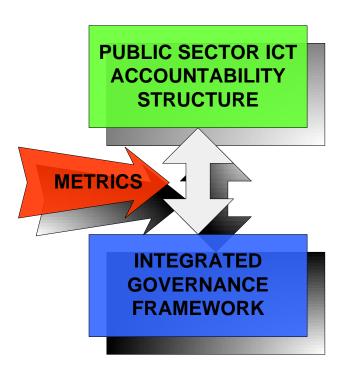




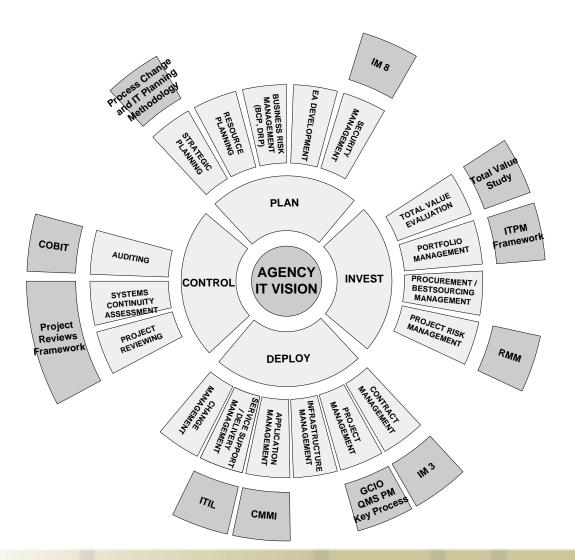
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ICT Policies & Governance in the Public Sector

- □ ICT Governance specifies the decision rights and accountability framework to encourage desirable behaviour in the use of ICT
- □ ICT Governance comprises three components:
 - Accountability structure
 - ICT policies and processes
 - Performance metrics



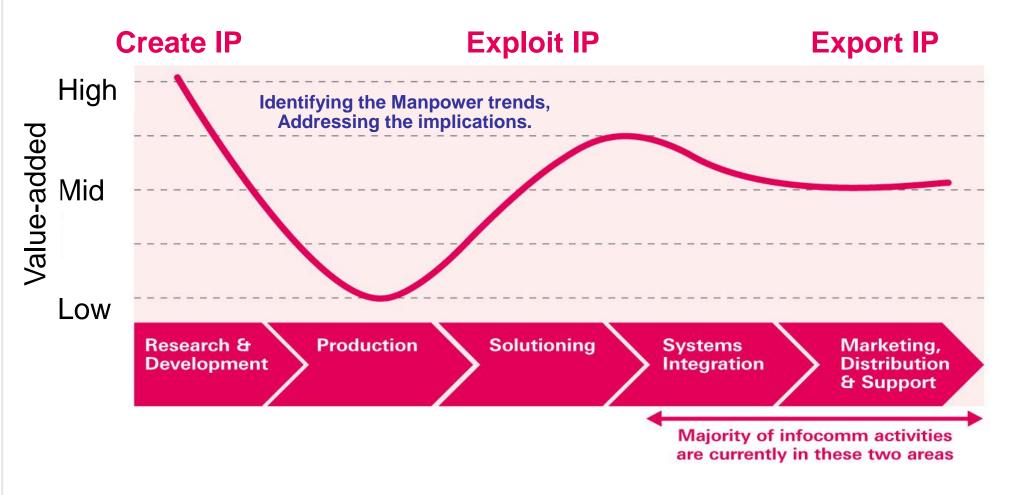
An Integrated ICT Government Framework



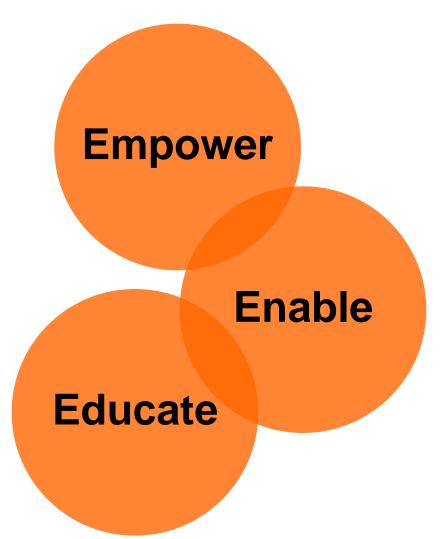
Lifecycle Approach:

- Plan, Invest, Deploy and Control
- Processes that an agency should consider for each stage.
- Identifies the policies, methodologies and tools that best serve the agency in addressing the processes.

Human Capital Development



Moving forward





Thank You.

Questions & Answers

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