

Son Kuswadi

Ministry of Communication and Information Technology Republic of Indonesia

> Asia Government CIO Seminar Tokyo, Japan October 2, 2008

Agenda

- Introduction
- ICT Policy and Progress
- E-Government Progress
- Requirement for Cooperation with Japan
- Conclusion

Introduction



Introduction

Indonesia Profile as Developing Country

Source: Baden Puset Statistik, 2006

National Statistics

- The largest archipelago worldwide
- Population of 230 million
- National GDP of US\$865 billion
 Annual economic growth of 6%
 Unbalanced regional development
- People Characteristics
 - Almost equal balance of gender.
 - Labor force of 94 billion
 - Farmer as majority occupation
 - 583 dialects across the country
 - 66% people in productive age
 - Unbalanced community density

- Geographic Spread
 - Over 18,000 islands
 - Almost 2 million km²
 - Coastline length of 55,000 km
 33 provinces
 440 districts
 5,263 municipalities
 - 62,806 villages
- Government Agencies
 - 20 Departments
 - 15 Ministries.
 - 26 Non-Departmental Bodies
 - 5 High Institutions

The country profile create huge opportunities and challenges at the same time ...



5 DRPARTEMEN KOMUNIKASI DAN INFORMATIKA REPUBLIK INDONESIA, 2006

Introduction

- Archipelagic country with more than 17,000 islands
 - ICT not yet affordable the majority of the population
 - The cost of distributing access and technology is too high in some areas and hence not economically attractive for private sectors
- More rural than urban areas
 - □ Urban Teledensity 11 25 %
 - Rural Teledensity 0.2 %
 - \pm 43.022 villages without phones (64.4 % from 66.778 villages)
- Mobile telecommunications penetration higher than fixed line
 - 8 mio fixed line (± 4 % of population).
 - 100 mio mobile phones (± 43 % of population).

ICT Policy and Its Progress Toward Indonesia Information Society

ICT-based Indonesian Society

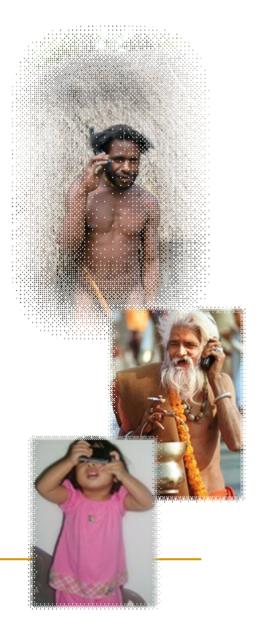
Information as main commodity and need

As civilization tool for interaction among people that information as integral part of society

Create, access, use and share of information and knowledge

Supporting individual and society to develop its potency

Improvement of life quality of Indonesian Society



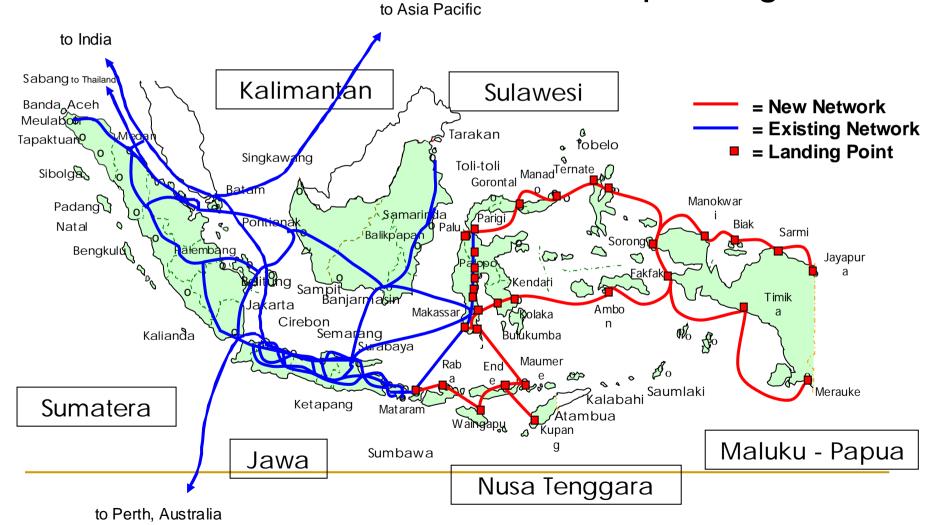
INDONESIA ICT BLUEPRINT : MAIN COMPONENTS

| ICT INFRASTRUCTURE | E-EDUCATION | | |
|---|---|--|--|
| Palapa Ring Project | Legalization of Educational Software | | |
| Transition into Digital Terrestrial TV | ICT Human Resources Competency Standard | | |
| 3G Implementation | e-Education in Formal Education | | |
| BWA Deployment | E-Education in Non-Formal Education | | |
| Affordable PCs | Internet Use for Education Campaign | | |
| | | | |
| E-GOVERNMENT | ICT INDUSTRY DEVELOPMENT AND SUPPORTING ELEMENTS | | |
| Legalization of Software in Government Institutions | Techno park Development | | |
| E-Service & e-Procurement | ICT Venture Capital | | |
| National Single Window | Information and Electronic Transaction Law | | |
| National Identification Number (NIN) | ICT Convergence Law | | |
| E-Budget | | | |
| | | | |

Towards Indonesian Information Society 2015 (MII 2015)

| →National Smart So | ciety Development: | |
|---------------------------|----------------------------------|-------------------|
| One School | One Computers Lab Program | n |
| Community | Access Point Development | |
| USO Progra | m | |
| Information | Dissemination, etc | |
| →Legal S/W Campai | an | |
| →ICT Industry Deve | • | |
| - | and Killer Application Develo | opment |
| →Public Service Intervice | | P |
| | System Interoperability | |
| | tion and Audit | |
| | Numbering System | |
| | Nambering Cystem | |
| | | |
| | | |
| | | |
| Develop National | On-going HR Development | |
| Information | And Capacity Building | Regulation, Law, |
| Infrastructure | And Capacity Dunding | Incentive Systems |

Information Infrastructure – Palapa Ring

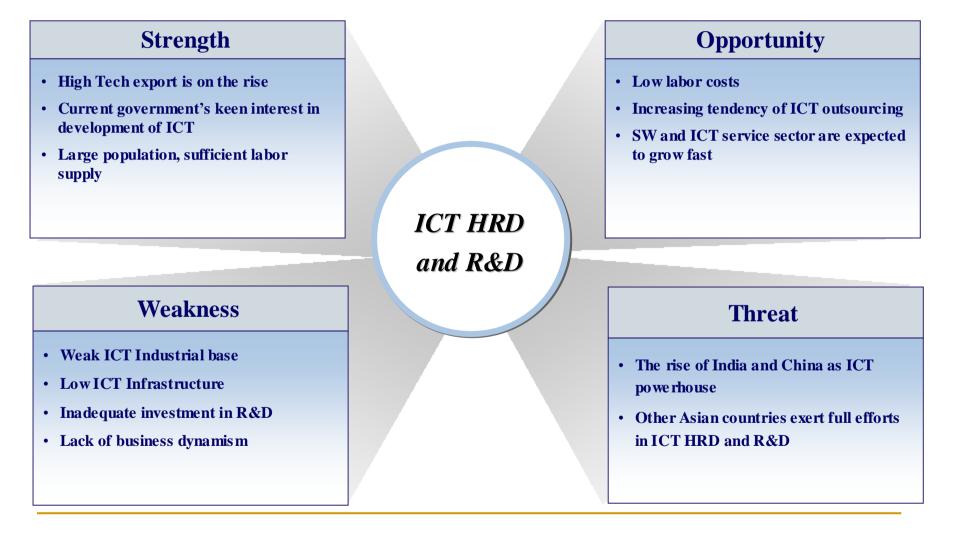


- Information Infrastructure Palapa Ring
 - 6 Members of **PALAPA-R** NG Consortium:
 - PT. Bakrie Telecom, Tbk
 - PT. Excelcomindo Pratama, Tbk
 - PT. Indosat, Tbk
 - PT. Infokom Elektrindo
 - PT. Powertek Utama Internusa
 - PT. Telekomunikasi Indonesia, Tbk
 - Consortium Agreement Signed in Surabaya, 10 November 2007.
 - Project Funding from each member investment, with consortium business scheme.
 - Estimated Cost : USD \$ 255,1 million eq. with IDR 2.346 billion.

Regulation, Law and Incentive

- Cyberlaw on Electronic and Information Transaction
 - The electronic transaction law will be the first Cyberlaw in Indonesia and this year (2008) has been established.
 - □ This law will give better security for electronic transactions.
 - □ EU Convention on Cybercrime 2001 will be adopted
- IPR (Intellectual Property Rights) Law Issued and enacted in 2003.

Human Resources Development



Human Resources Development

- IT Enabling Job: Outsource ICT Job
 - 3.3 million of ICT outsource job opportunity until 2015

Est. Salary 136 billion USD

IT Enabling Job: Domestic Market

Est. Salary 1 billion USD

- IT Enabled Job
 - 10 workers for every office: 1 admin and 9 IT operator

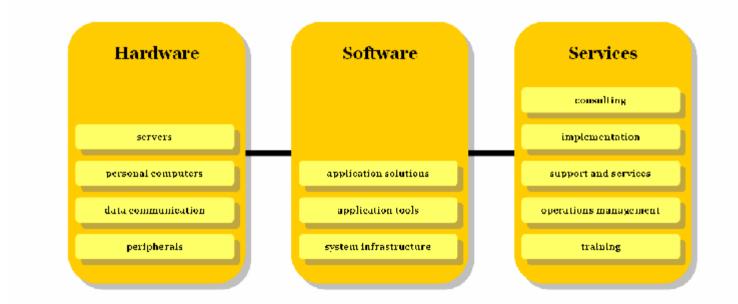
Human Resources Development – For ICT Product Export

| | 2002 | 2004 | 2006 | 2008 | 2010 |
|-------------------------------------|--------|--------|----------|----------|----------|
| Annual Growth | 10% | 20% | 55% | 70% | 70% |
| Production Target (mio US \$) | 500.00 | 660.00 | 1,108.80 | 2,835.76 | 8,195.33 |
| Productivity (\$/Person) | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| Total Target of ICT Worker | 20,000 | 26,400 | 44,352 | 113,430 | 327,813 |

- University/Institute
 - ITB, UI, ITS, STIKOM, Universitas Petra, Universitas Pelita Harapan, Universitas Bina Nusantara, Universitas Gunadarma, STT Telkom, UGM
- HRD ICT Center: 2(two) centers (Cooperation Between MCIT-UIN Jkt and MCIT-UIA Jakarta)
- Private Training Center
- Vendors Training Center
 - Microsoft, Hewlett-Packard, SUN Microsystems, Cisco, Oracle, IBM, Schlumberger

Indonesian ICT Market Segment

Source: International Data Center, 2006.



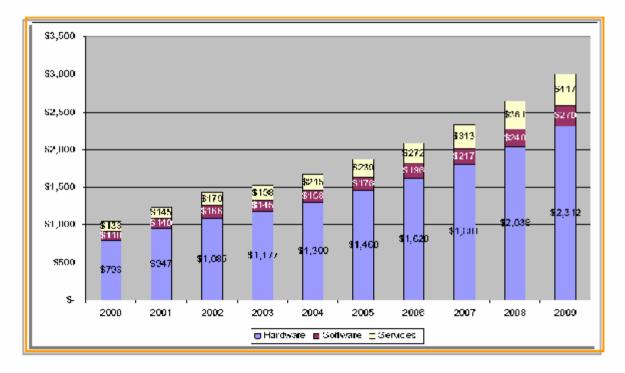
HR-ICTs become the main player in every industry segment determining the growth performance of such technology sector ...



D DEPARTRMEN KOMUNTKAST DAN INFORMATIKA REPUBLIK INDONESIA. 2006

Indonesia ICT Market Growth

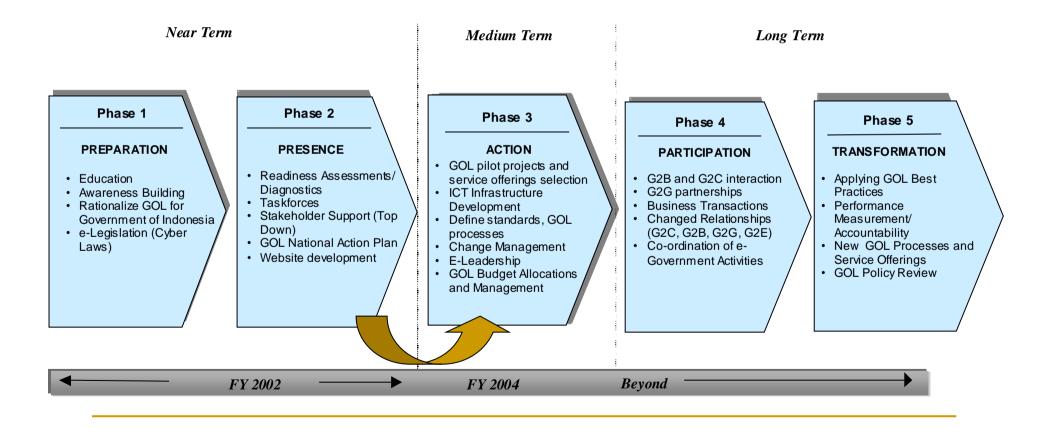
Source: International Data Center, 2000



C DEPARTEMEN KOMUNIKASI DAN INFORMATIKA REPUBLIK INDONESIA, 2006

- Officially was introduced to public administration by Presidential Directive No 6/2001 on Telematics:
- That the government of Indonesia has to use telematics to support good governance
- That e-government should be introduced for various purposes in government offices.

Indonesia's Roadmap to e-Government

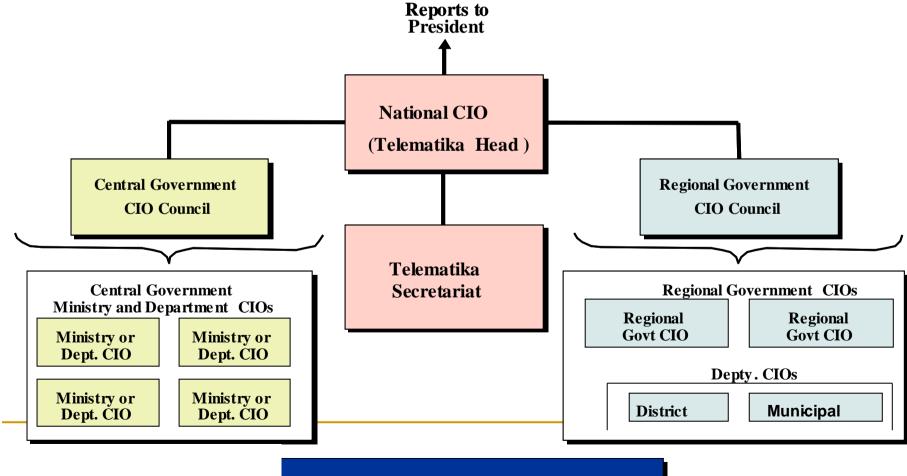


To Move to Phase 3 of its Roadmap or "Jump Start" itself into Action, the GOI should Focus on the Following 5 Critical Next Steps

CIO responsibility

- Step 1: Create e-Leadership establish a core high level e-government body to facilitate and co-ordinate e-government activities at all levels of government
- Step 2: Enable the environment develop appropriate e-government legislation and cyber laws
- Step 3: Build out ICT Infrastructure expand the utilization and efficient allocation of existing ICT capacity and develop key ICT infrastructure that will have a cross-cutting effect throughout the government
- Step 4: Pilot Project develop prioritized list of pilot projects and outline a phased implementation strategy
- Step 5: Change Management and BPR incorporate change management practices as an integral part of the deployment of each e-government program

Step 1: Create e-Leadership — Establish a Core High Level e-Government Body to Facilitate and Co-ordinate e-Government Activities at All Levels of Government



National CIO Council

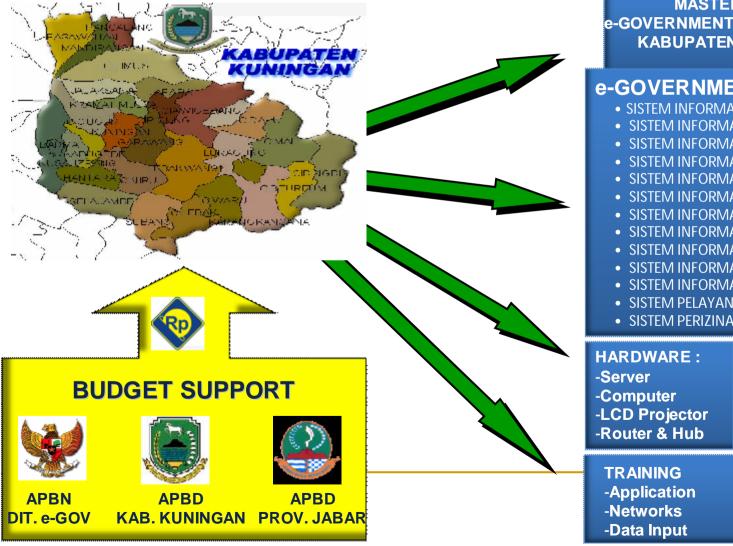
Indonesian Experiences

- The first CIO model would be commenced from Central Government, provincial, municipalities, district.
- For the period 2002-2008, there have been 35 group of ICT training program, conducted by MICT for senior officials (level 2, 3 and 4).
- Indonesia is still in awareness stage of CIO training since the focus has been on the ICT aspect

Step 5: Change Management and BPR — Incorporate Change Management Practices as an Integral Part of the Deployment of Each e-Government Program

- Educate GCIO Officials and Staff (at all levels) through e-Government Immersion Programs with Special Focus on Accelerating the Learning Curve in Rural Areas
- Upgrade Skills at the Grassroots level through Free "Train The Trainer" Programs to the Public
- Develop Comprehensive National Communication Campaign
 Designed to Improve Internet Awareness Among the General Public
- Establish Policies that Require that the Organizational, Human Resource and Skill Impact be Evaluated and Accommodated as an Integral Part of Deploying all e-Government Programs

Typical of e-Gov Implementation



MASTER PLAN e-GOVERNMENT DEVELOPMENT **KABUPATEN KUNINGAN**

e-GOVERNMENT APPLICATION

- SISTEM INFORMASI KEPEGAWAIAN
- SISTEM INFORMASI ARSIP DAERAH
- SISTEM INFORMASI PENDAPATAN DAERAH
- SISTEM INFORMASI PERTANIAN
- SISTEM INFORMASI PERIKANAN
- SISTEM INFORMASI KANTOR PUSAT PELAYANAN
- SISTEM INFORMASI PETERNAKAN
- SISTEM INFORMASI PERKEBUNAN
- SISTEM INFORMASI PARIWISATA
- SISTEM INFORMASI PENDIDIKAN
- SISTEM INFORMASI KESEHATAN
- SISTEM PELAYANAN PUBLIK
- SISTEM PERIZINAN

Already implemented



E-Government Implementation Chalengge

- Limited budget, or insufficient funding to continue e-Government project (aided by donors)
- Limited quantity and quality of HR
- Limited infrastructures (esp. computer and Internet)
- Lack of awareness and concerns of local government leaders
- Unclear the structure of organization of local government institutions (the name and structure vary, sometimes even do not exist, and not clear who is responsible)

Requirement for Cooperation with Japan

- Senior official workshop/training in Japan with intensive discussion on implemention process and its constraints to give a broad view on e-government role
- Technical cooperation on e-government implementation
- Pilot project of e-government implementation

Conclusions

- We present our ICT Policy and its progress so far, including some strategic step toward Indonesia Information Society 2015
- E-Government Policy also has been presented including its roadmap and its progress achieved and some challenges.
- Cooperation with Japanese Government has been list up